CASIO

Digital imaging revolution!

NEW ZR100

Amazing Gear EXILIM

0→1

Applying original concepts
to advance technology
and create unique value.

It all started with the CASIO QV-10.

In 1995, the CASIO QV-10 became the world's first*1 compact digital camera with built in LCD monitor screen.

EXILIM Brand Concept

Stylish & Speedy

Unique concepts advance new technology

Stylish and speedy. A "take it along anywhere" concept led to slim design technology that made digital cameras thinner than ever. An "allow viewing of invisible worlds" concept brought about high-speed technology. This is how efforts to realize unique concepts in the EXILIM evolution gave birth to CASIO Only Technology.

Four values enabled by CASIO Only Technology

Speed
High-speed performance

Wearable
Super-thin design for fashionable function

Reliable
Advanced image quality, amazing battery life

Entertainment
New digital imaging culture

Continuing evolution that amazes and excites!

New Generation Engine "EXILIM Engine HS"

The combination of high-speed image processing technology and high-speed shooting technology

High-speed Image Processing Technology

EXILIM Engine 5.0

EXILIM Engine HS

High-speed Shooting Technology

HIGH SPEED SYSTEM

HDR

High Dynamic Range virtually equivalent to that of the human eye.

HDR-ART

New digital image expression with the touch of the shutter button.

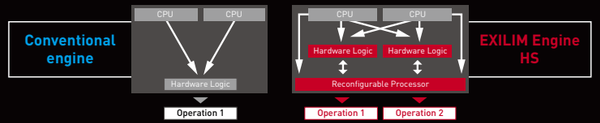
Multi Frame SR Zoom

Improved textures and super-resolution for high-quality zoom.

Quick Response

0.37-second*2 interval between shots catches all the action.

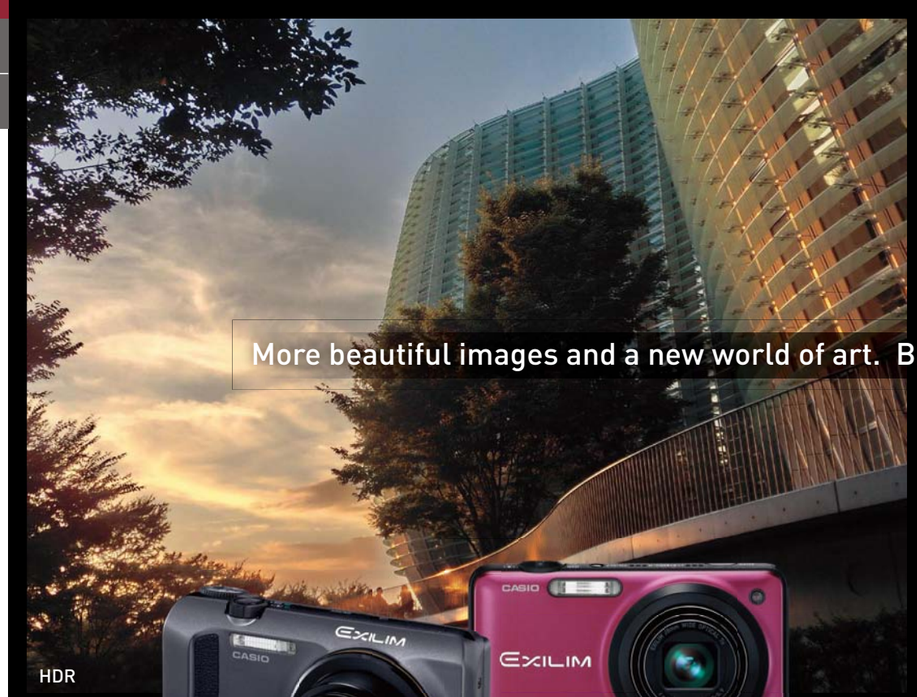
A reconfigurable processor delivers a multi-CPU configuration that creates two image processing paths, along with high performance functions and high-speed processing.



*1. 280-gram maximum general consumer-oriented digital camera with built-in LCD (based on CASIO data) *2. When using a Panasonic PRO HIGH SPEED 1GB SD memory card. Built-in flash off, 12M image size, Standard image quality. Actual time depends on the memory card being used. • SR = Super Resolution • Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

NEW ZR100
NEW ZR10

- HDR
- HDR-ART
- 25x Multi Frame SR Zoom*1
  ZR10: 14X Multi Frame SR Zoom*1
  SR = Super Resolution
  See page 7 for details.
- 0.37-second*2 shooting interval
- High-speed AF 0.14 seconds*3
  ZR10: 0.15 seconds*3
- Premium AUTO*4
  See pages 29 through 32 for details.
  - Auto Optimum Night Scene
  - Auto Optimum Lighting
  - Intelligent AF
  - Landscape Effect
  - Make-up Mode
  - Face Detection
- High-sensitivity CMOS sensor
- CMOS Shift Stabilization
- 360˚ Slide Panorama
- 3.0-inch 460,000-dot Super Clear LCD
- H.264 Full HD Movie (stereo)
- HDMI™ output (mini)*5*6



More beautiful images and a new world of art. Brought to you by high-speed image merging.

ZR100 Reliable performance by manual settings for total control.

• **BLACK** EX-ZR100BK • **WHITE** EX-ZR100WE

12.1	12.5x	25x*1	24mm	3.0"	450*2	32
Megapixels	Optical Zoom	SR Zoom	Wide-angle Lens	Super Clear LCD	Battery Life	BEST SHOT

ZR10

• **RED** EX-ZR10RD • **SILVER** EX-ZR10SR • **BLACK** EX-ZR10BK

12.1	7x	14x*3	28mm*4	3.0"*5	290*6	40
Megapixels	Optical Zoom	SR Zoom	Wide-angle Lens	Super Clear LCD	Battery Life	BEST SHOT

EXILIM Engine HS | High sensitivity CMOS sensor | Multi Frame SR ZOOM | Premium AUTO | Full HD | YouTube READY

*1. Multi Frame Super-resolution Technology enhances zooming by up to 2 times of optical zoom while maintaining clarity and image quality. *2. When using a Panasonic PRO HIGH SPEED 1GB SD memory card. Built-in flash off, 12M image size, Standard image quality. Actual time depends on the memory card being used. *3. Approximate; full wide angle. Auto Focus speed measurement conditions defined by CASIO. *4. These features and modes can be selected individually when Premium AUTO is off. (Except Landscape Effect and Make-up Mode)

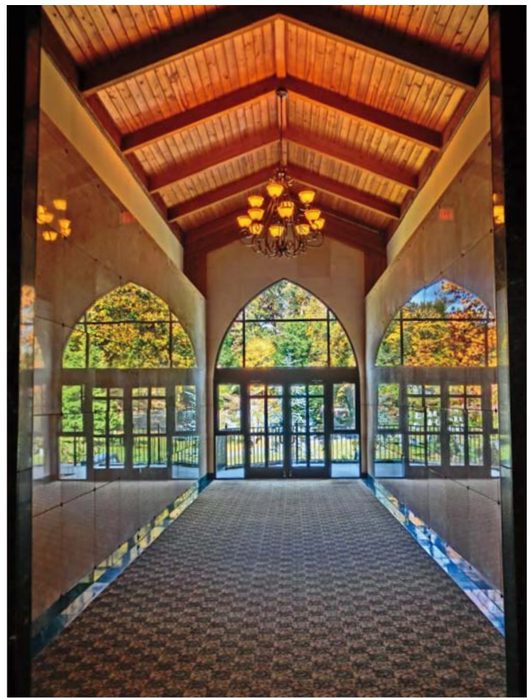
*5. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. *6. 1080 / 50i output is not supported for PAL output using HDMI™. *7. Converted to 35mm film format. *8. Approximate; CIPA standards. Normal screen brightness (based on CASIO data) • SR = Super Resolution • Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

HDR makes it beautiful.

High Dynamic Range virtually equivalent to that of the human eye.

HDR - Merging of multiple shots into a final image.

A burst of shots at different exposures are merged into a final image. The result is high dynamic range that approaches that of the human eye. Rich gradation produces images of amazing beauty.



HDR

Subject movement is detected and a burst of images are merged to create an ideal final image.

HDR combines different parts of a burst of images shot with different exposures into a final image. The result is reproduction of an amazing high dynamic range that is virtually the same as the maximum of 2^{13} for 35mm film. Even if your subject is moving, the camera automatically extracts only the required parts from the burst of images and merges them into a final image. The result is a great-looking ideal final image in which both the subject and gradations appear just as they do in real life.

The ZR100 comes with a mode dial for quick and simple selection of HDR*, HDR-ART*, and other recording modes.

* ZR10: Selected using BEST SHOT.

HDR-ART for dramatic images.

A new form of photographic expression made possible by HDR.

Normal Auto Shooting

Overexposure and underexposure causes a loss of detail.

HDR Shooting

Stunning reproduction of details for the sky, the stone wall and its shadows, and the bricks.

Saturation and contrast adjusted to create an artistic image.

HDR Art adjusts local saturation and contrast levels during HDR merging to give images artistic expression. With the ZR100, you can select one of three different effect levels. No troublesome operations are required. Simply press the shutter button for beautiful artistic images.

With the ZR100, you can select one of three HDR-ART effect levels (Weak, Normal, Strong).

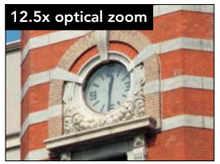
HDR-ART

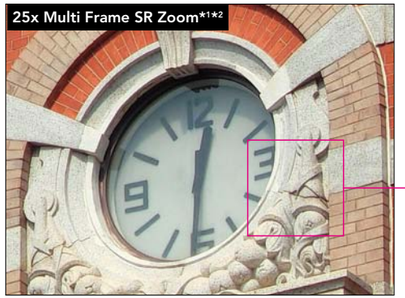
• Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

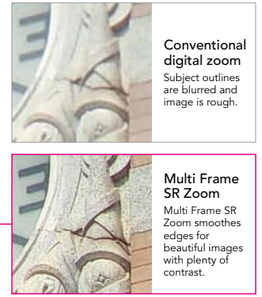
Virtually equivalent to optical zoom. Digital technology enables a new level of quality.

Multi Frame SR ZOOM 25x Multi Frame SR Zoom*1*2

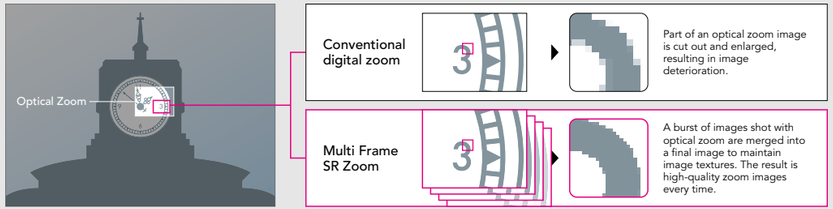
Multi Frame Super-resolution Technology makes it possible to merge and position a burst of multiple images in a way that enhances the textures of an image. Multi Frame SR Zoom virtually doubles the maximum optical zoom factor to the equivalent of 25x optical zoom*1*2 while maintaining image texture for true high zoom capabilities.






Conventional digital zoom
Subject outlines are blurred and image is rough.
Multi Frame SR Zoom
Multi Frame SR Zoom smoothes edges for beautiful images with plenty of contrast.

Multi Frame Super-resolution Technology for enhanced textures and beautiful images


Optical Zoom
Conventional digital zoom
Part of an optical zoom image is cut out and enlarged, resulting in image deterioration.
Multi Frame SR Zoom
A burst of images shot with optical zoom are merged into a final image to maintain image textures. The result is high-quality zoom images every time.

360° Slide Panorama

Press the shutter and move the camera to shoot a panorama image of the scene before you. Images are joined in a way that makes seams barely noticeable.

*1. Multi Frame Super-resolution Technology enhances zooming by up to 2 times of optical zoom while maintaining clarity and image quality. *2. ZR10: 14X Multi Frame SR Zoom *3. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. *4. 1080 / 50i output is not supported for PAL output using HDMI™.

Premium AUTO Premium AUTO

Simply point the camera at the subject and it instantly analyzes shooting conditions to determine if it is a night scene, backlit, etc. The camera then automatically determines and configures the functions that are required at the exact levels they should be set at in order to produce the ideal image.

Enhanced speed and image quality

Night Scene and Portrait
Both the background and subject come out bright, for a night scene just as you saw it.

- Night Scene / Tripod detection
- Intelligent Color (Area-specific white balance control)
- Make-up Mode and Digital Foundation
- Noise reduction

Full HD H.264 Full HD Movie

Now you can enjoy all of the quality of 1920 x 1080-pixel Full HD Movie recording. The image processing system of EXILIM Engine HS is designed to record beautiful movie images in exquisite detail. A built-in mini HDMI™*3*4 terminal makes it easy for you to enjoy your movies on today's big-screen TVs.

- CS image shooting*5 during movie recording
- 12.5x Optical Zoom during movie recording*6
- Continuous AF during movie recording

Other Functions

Manual exposure settings*7 | 1cm Macro*8*9 | Tracking AF
40 fps (Max.) High-speed Continuous Shutter Maximum shots: 30 / 10-megapixel **| 1,000 fps*10 High-speed Movie (Max.)**

*5. Approximately 10fps, up to seven images per burst. Up to 28 images during a single movie recording session. *6. ZR10: 7x Optical Zoom *7. Not available on the ZR10 model. *8. Approximate distance to subject. *9. ZR10: 2cm *10. ZR10: 480fps • CS = Continuous Shutter • SR = Super Resolution • Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

Flagship

NEW ZR100 NEW ZR10 PAGE 3

HDR and HDR-ART

Travel

NEW H20G PAGE 11

The world's first*1 Hybrid-GPS

NEW H30 PAGE 15

1,000-image*2 long battery life

High Performance

Z2300 PAGE 17

Advanced Premium AUTO recording

Ease of Use

NEW ZS10 PAGE 21

easy Mode in a slim configuration

NEW ZS5 PAGE 24

easy Mode for error-free operation

Tough

G1 PAGE 27

Developed for endurance

EX-FH100 PAGE 25

EX-H15 PAGE 16

EX-H5 PAGE 25

EX-S200 PAGE 19

EX-Z800 PAGE 20

EX-Z370 PAGE 26

EX-Z16 PAGE 26

*1. Consumer-level digital cameras; based on information available to CASIO as of October 2010.
*2. Approximate; CIPA standards. Normal screen brightness (based on CASIO data)

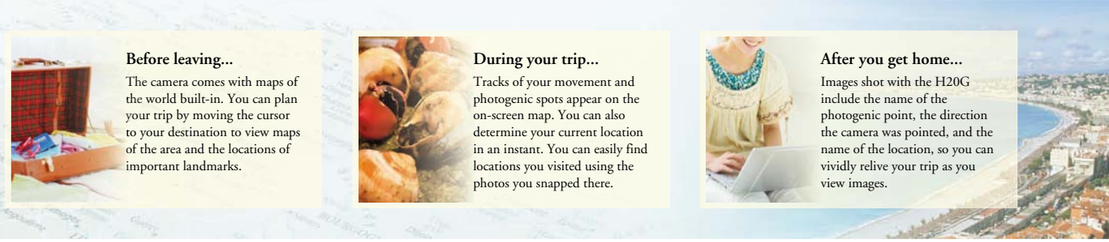
NEW H20G

- Hybrid-GPS
- 15x Single Frame SR Zoom*1
  SR = Super Resolution
- Premium AUTO*2
  See pages 29 through 32 for details.
  - Auto Optimum Night Scene
  - Auto Optimum Lighting
  - Intelligent AF
  - Landscape Effect
  - Make-up Mode
  - Face Detection
- Long Battery Life
  See page 16 for details.
- CCD Shift Stabilization
- High-speed AF 0.17 seconds*3
- Tracking AF
- 360˚ Slide Panorama
- 3.0-inch 460,000-dot Super Clear LCD
- H.264 HD Movie
- HDMI™ output (mini)*4*5

• **BLACK** EX-H20GBK

EXILIM Engine HS | Hybrid-GPS | Premium AUTO | 14.1 Megapixels | 10x Optical Zoom | 15x* SR Zoom | 24mm*7 Wide-angle Lens | 3.0" Super Clear LCD | 600*8 Battery Life | 27 BEST SHOT | YouTube READY

*1. Super-resolution Technology enhances zooming by up to 1.5 times of optical zoom while maintaining clarity and image quality. *2. These features and modes can be selected individually when Premium AUTO is off. *3. Approximate; full wide angle. Auto Focus speed measurement conditions defined by CASIO. *4. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. *5. 1080 / 50i output is not supported for PAL output using HDMI™.

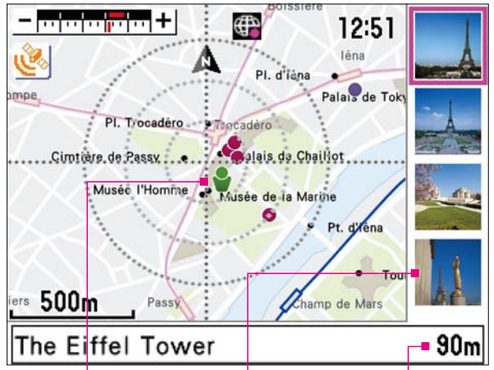


Before leaving...
The camera comes with maps of the world built-in. You can plan your trip by moving the cursor to your destination to view maps of the area and the locations of important landmarks.

During your trip...
Tracks of your movement and photogenic spots appear on the on-screen map. You can also determine your current location in an instant. You can easily find locations you visited using the photos you snapped there.

After you get home...
Images shot with the H20G include the name of the photogenic point, the direction the camera was pointed, and the name of the location, so you can vividly relive your trip as you view images.

See where you are. Find out how to get where you want to go.

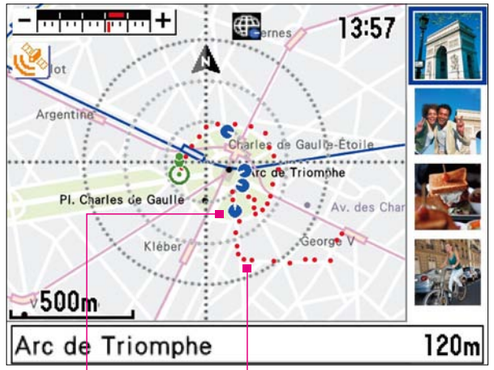


Press the [Current Location] button to display your current location

Approximately 10,000 scenic images built in for display as nearby landmarks and points of interest

Distance from your current location to a selected destination

Record place names with photos so you can relive your travels forever!



Points you shot and place names

Your route shown on the map

Can be displayed on Picasa™ and Google Earth™.

*6. Consumer-level digital cameras; based on information available to CASIO as of October 2010. *7. Converted to 35mm film format. *8. Approximate; CIPA standards, Normal screen brightness, GPS off (based on CASIO data) • Google, Google Earth, and Picasa are registered trademarks of Google Inc. • SR = Super Resolution • Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

Approximately 10,000 scenic images built-in

The camera comes with a vast collection of scenic image and scenic spot names built-in*1. The name of the landmark that is selected*2 when you shoot appears on the display whenever you view your image. You also can stamp images with place names*3.

Approximately 10,000 scenic images

Approximately 1 million place names and landmark names that can be included with image data or stamped into images*11

Positioning, even when the camera is off

A built-in motion sensor obtains GPS information every 10 minutes while you are on the move, even when the camera is turned off. GPS is turned off while the camera is stationary, to save battery power.

On the move ▶ GPS ON — Takes a reading every 10 minutes. | Motion Sensor ON — Autonomous Positioning Data Writing

Stopped ▶ GPS OFF | Motion Sensor OFF

Indoor positioning

Even indoors, a built-in motion sensor tracks your movements. When you go outside again, GPS positioning is performed to ensure high positioning accuracy.

15x Single Frame SR Zoom*4

The latest super-resolution technology is applied to pack the equivalent of 15x optical zoom*4 with minimal deterioration of texture and image quality into a compact configuration.

1x

15x Single Frame SR Zoom*4

Premium AUTO

Enhanced speed and image quality
Premium AUTO

Simply point the camera at the subject and it instantly analyzes shooting conditions to determine if it is a night scene, backlit, etc. The camera then automatically determines and configures the functions that are required at the exact levels they should be set at in order to produce the ideal image.

360° Slide Panorama

Press the shutter and move the camera to shoot a panorama image of the scene before you. Images are joined in a way that makes seams barely noticeable.

• GPS satellite wave reception is not possible when waves are blocked or reflected inside of a building or underground, or when you are among high-rise buildings, under an overhead structure, inside of a tunnel, near high-voltage wires, or among dense foliage. For good wave reception, move outside where there is an unobstructed path to the sky above. • When you are in a location where the camera is unable to receive GPS satellite waves, positioning accuracy may relatively lower than in locations where waves can be received. • Certain countries or areas may place restrictions on the use of GPS and / or the accumulation of positioning log data. This camera has a built-in GPS function. Before taking it to another country, be sure to check with the appropriate embassy or with your travel agent to find out if bringing in a camera with a GPS function and / or accumulation of position information log data is allowed in that country. • The map data, recommended photogenic spot data, and place name data displayed by the camera may not match actual place names and proper names. • Recommended photogenic spots are provided for reference only, and there is no guarantee that you will be able to get to a site or that a site will be easily accessible. Before entering a mountainous, jungle, desert, or other dangerous area or any area where your personal safety may be at risk, be sure to obtain the latest news about regulations, restrictions, safety, and other important information. • This camera does not have a route guidance function. • The Hybrid-GPS function of this camera was designed and manufactured for personal digital camera use only. Never try to use it as a navigation instrument for an aircraft, motor vehicle, personal navigation, or any other type of navigation, or for surveying. CASIO shall not be held liable in any way for any damages incurred due to attempts to use the positioning information produced by this camera for any of the purposes mentioned above. • Nearby magnetic and metal can cause sensor errors. Keep the camera as far away as possible from magnets and metal.

*1. Data is not included for some areas in China, and other countries and geographic areas. *2. Camera automatically displays up to six place name candidates in the vicinity of the shot. *3. Stamping can be enabled / disabled when shooting. *4. Super-resolution Technology enhances zooming by up to 1.5 times of optical zoom while maintaining clarity and image quality.

World map display

World map data*5 comes built into camera memory, with a scale up to approximately 1:2,700 for 154 major cities.

Detailed map 1

154 international cities

1:35,000 to 1:2,700*6

Detailed map 2

166 international cities
All of Japan

1:540,000 to 1:140,000*6

Wide map

Entire World

1:11,000,000 to 1:2,700,000*6

Detailed Map Data Cities

Other areas displayed as wide maps. The ranges of city maps are not necessarily defined by the boundaries of each city. The display range of each city map depends on each individual city. City maps do not show all areas of the city.

Country / Place Name	City Names	Detailed Map Data Cities
Japan	Whole area	Detailed map 2
	Tokyo, Yokohama, Osaka, Nagoya, Sapporo,Kobe, Kyoto, Fukuoka, Hiroshima, Sendai, Naha	Detailed map 1
United States of America	Hawaii, Kauai	Detailed map 2
	New York, Los Angeles, Chicago, Orlando, Houston, San Francisco, San Diego, Boston, Seattle, Washington D.C., Las Vegas, Atlanta, Miami, Anaheim, New Orleans, Santa Monica, Honolulu (Oahu), Maui, Guam, Saipan	Detailed map 1
Canada	Banff, Edmonton, Charlottetown (Prince Edward Island)	Detailed map 2
	Toronto, Victoria, Montreal, Vancouver, Calgary, Quebec, Niagara	Detailed map 1
United Mexican States	Mexico City, Cancun	Detailed map 1
Republic of Peru	Lima, Cusco	Detailed map 1
Federative Republic of Brazil	San Paulo, Rio de Janeiro, Salvador	Detailed map 1
Argentine Republic	Buenos Aires	Detailed map 1
Republic of Chile	Santiago	Detailed map 1
Dominican Republic	Punta Cana	Detailed map 1
Republic of Cuba	Havana, Varadero	Detailed map 1
Commonwealth of Australia	Perth, Adelaide	Detailed map 2
	Sydney, Melbourne, Brisbane, Gold Coast, Canberra, Cairns	Detailed map 1
New Zealand	Rotorua, Queenstown, Milford Sound	Detailed map 2
	Auckland, Wellington, Christchurch	Detailed map 1
United Kingdom	London, Birmingham, Glasgow, Liverpool,Edinburgh, Manchester	Detailed map 1
French Republic	Paris, Lyon, Nice, Monte Carlo, Mont St. Michel	Detailed map 1

Country / Place Name	City Names	Detailed Map Data Cities
Spain	Cordoba	Detailed map 2
	Madrid, Barcelona, Valencia, Seville, Palma de Mallorca, Granada, Benidorm	Detailed map 1
Portuguese Republic	Lisbon	Detailed map 1
Republic of Italy	Sicily, Malta, Sardinia, Pompei	Detailed map 2
	Rome, Milan, Florence, Venice, Napoli	Detailed map 1
Federal Republic of Germany	Dresden	Detailed map 2
	Berlin, Munich, Frankfurt, Hamburg, Nuremberg, Rothenburg	Detailed map 1
Swiss Confederation	St. Moritz	Detailed map 2
	Zurich, Geneva, Bern, Lucerne, Interlaken, Grindelwald	Detailed map 1
Republic of Austria	Vienna, Salzburg	Detailed map 1
Kingdom of the Netherlands	Amsterdam, Rotterdam	Detailed map 1
Kingdom of Belgium	Brussels, Antwerp, Bruges	Detailed map 1
Ireland	Dublin	Detailed map 1
Kingdom of Denmark	Copenhagen	Detailed map 1
Kingdom of Norway	Oslo, Bergen	Detailed map 1
Kingdom of Sweden	Stockholm	Detailed map 1
Republic of Finland	Helsinki	Detailed map 1
Republic of Hungary	Budapest	Detailed map 1
Czech Republic	Prague	Detailed map 1
Republic of Poland	Warsaw, Krakow	Detailed map 1
Romania	Bucharest	Detailed map 1
Republic of Bulgaria	Sofia, Varna, Burgas	Detailed map 1

Country / Place Name	City Names	Detailed Map Data Cities
Hellenic Republic	Crete	Detailed map 2
	Athens	Detailed map 1
Republic of Estonia	Tallinn	Detailed map 1
Russia	Moscow, St. Petersburg	Detailed map 1
Ukraine	Kiev	Detailed map 1
Republic of Belarus	Minsk	Detailed map 1
Republic of Turkey	Istanbul, Antalya, Edirne, Mugla	Detailed map 1
Arab Republic of Egypt	Cairo, Alexandria, Sharm el-Sheikh, Hurghada, Luxor	Detailed map 1
South Africa	Cape Town, Johannesburg	Detailed map 1
Republic of Korea	Jeju	Detailed map 2
	Seoul, Pusan, Gwangju	Detailed map 1
Taiwan	Taipei	Detailed map 1
Hong Kong	Hong Kong	Detailed map 1
Macau	Macau	Detailed map 1
Socialist Republic of Viet Nam	Ho Chi Minh City, Hanoi, Halong Bay, Hue	Detailed map 1
Kingdom of Cambodia	Angkor Wat	Detailed map 2
	Phnom Penh	Detailed map 1
Kingdom of Thailand	Ayuthaya	Detailed map 2
	Bangkok, Phuket, Chiang Mai, Pattaya	Detailed map 1
Republic of Indonesia	Jakarta, Bali	Detailed map 1
Malaysia	Pulau Langkawi, Penang	Detailed map 2
	Kuala Lumpur, Melaka	Detailed map 1
Republic of Singapore	Singapore	Detailed map 1
Republic of the Philippines	Manila	Detailed map 1

*5. There are currently no plans to provide map data updates. *6. Approximate. Map scale depends on the latitude. The latitudes shown here are 30 to 40 degrees.
• SR = Super Resolution • Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

NEW H30

- Long Battery Life
- 18.8x Single Frame SR Zoom*1
  SR = Super Resolution
- High-speed AF 0.13 seconds*2
- Premium AUTO*3
  See pages 29 through 32 for details.
  - Auto Optimum Night Scene
  - Auto Optimum Lighting
  - Intelligent AF
  - Landscape Effect
  - Make-up Mode
  - Face Detection
- CCD Shift Stabilization
- 240° Slide Panorama
- Tracking AF
- Auto Shutter
- Silent Mode
- 3.0-inch 460,000-dot Super Clear LCD
- HD Movie
- 12.5x Optical Zoom during Movie Recording

• SILVER EX-H30SR • BLACK EX-H30BK • GOLD EX-H30GD • RED EX-H30RD

POWERFUL BATTERY
One Charge 1000 images

EXILIM Engine 5.0 | Premium AUTO | 16.1 Megapixels | 12.5x Optical Zoom | 18.8x SR Zoom | 24mm Wide-angle Lens | 3.0" Super Clear LCD | 1000 Battery Life | 36 BEST SHOT | YouTube READY

*1. Super-resolution Technology enhances zooming by up to 1.5 times of optical zoom while maintaining clarity and image quality. *2. Approximate; full wide angle. Auto Focus speed measurement conditions defined by CASIO. *3. These features and modes can be selected individually when Premium AUTO is off. *4. Converted to 35mm film format.

1,000 shots*5 on a single charge! The optimum, smart choice for travel!

Reduces troublesome charging	No need to carry around a charger	8 hours 20 minutes*6 of continuous playback

Amazing long battery life.

NEW H30 H15
14.10-megapixel, 14x optical zoom model, Company A
12.10-megapixel, 12x optical zoom model, Company B
16.20-megapixel, 10x optical zoom model, Company C
260 images
300 images
300 images
1000 images*5
100 200 300 400 500 600 700 800 900 1,000 (images)

CIPA Standards The Camera and Imaging Products Association (CIPA) defines various standards for measuring camera performance, including battery life. These standards help to standardize the battery life values reported in the catalogs and user documentation of different manufacturers, which helps users to better compare different products against each other. • Values measured in accordance with CIPA standards do not guarantee such values during actual use. • CIPA Standard Battery Life Measurement Conditions: Normal temperature (23°C); unused primary or fully charged secondary battery; monitor on; zoom operation between full wide and full telephoto every 30 seconds; during which two images are recorded with flash; power turned off and back on every time 10 images are recorded. Battery life is time it takes for the power supply to shut down for the first time as recording is repeated under the above conditions. • As a general rule, factory default camera setup is used.

Record your travels with 24mm*4 Wide-angle lens and 18.8x Single Frame SR Zoom*1.

A 24mm*4 Wide-angle lens captures every detail of both expansive scenery and intimate shots as well. Single Frame SR Zoom*1, which enables high-zoom capabilities in a compact configuration, enables the equivalent of 18.8x optical zoom*1 while maintaining image sharpness.

24mm*4 Wide-angle Lens

18.8x Single Frame SR Zoom*1

High-speed Auto Focus

Auto Focus operation speed has been increased help ensure you can capture precisely the moment you want. The H30 can focus on a subject in a mere 0.13*2 seconds, putting it at the top of its class.

H15

14.1 Megapixels
10x Optical Zoom

• BROWN EX-H15BN • SILVER EX-H15SR • BLACK EX-H15BK • PINK EX-H15PK

*5. Approximate; CIPA standards. Normal screen brightness (based on CASIO data) *6. Standard temperature (23°C), one-image scroll approximately every 10 seconds.
• SR = Super Resolution • Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

Z2300

- **Premium AUTO*1**
  See pages 29 through 32 for details.
  - Auto Optimum Night Scene
  - Auto Optimum Lighting
  - Intelligent AF
  - Landscape Effect
  - Make-up Mode
  - Face Detection
- **7.5x Single Frame SR Zoom*2**
  SR = Super Resolution
- **Long Battery Life**
  See page 16 for details.
- **CCD Shift Stabilization**
- **High-speed AF 0.18 seconds*3**
- **Auto Shutter**
- **Art Shot**
- **Tracking AF**
- **3.0-inch 460,000-dot Super Clear LCD**
- **HD Movie**

Resolution and reality made possible by the latest digital technology

Conventional digital zoom
Subject outlines are blurred and image is rough.

Single Frame SR Zoom
A more powerful engine reproduces subtle details and gradations.

Single Frame SR Zoom for high-definition 14M-size images.

Super-resolution technology enables 7.5x zoom*2 for beautiful 14M-size close-ups without sacrificing definition, sharpness or texture. • SR = Super Resolution

1x

5x Optical Zoom

7.5x Single Frame SR Zoom*2

• **GOLD** EX-Z2300GD

• **BLACK** EX-Z2300BK

• **PURPLE** EX-Z2300PE

• **PINK** EX-Z2300PK

• **BLUE** EX-Z2300BE

EXILIM Engine 5.0 | Premium AUTO | 14.1 Megapixels | 5x Optical Zoom | 7.5x SR Zoom | 26mm Wide-angle Lens | 3.0" Super Clear LCD | 580 Battery Life | 40 BEST SHOT | YouTube READY

*1. These features and modes can be selected individually when Premium AUTO is off. *2. Super-resolution Technology enhances zooming by up to 1.5 times of optical zoom while maintaining clarity and image quality.
*3. Approximate; full wide angle. Auto Focus speed measurement conditions defined by CASIO. *4. Converted to 35mm film format. *5. Approximate; CIPA standards. Normal screen brightness (based on CASIO data)
• SR = Super Resolution • Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

S200

- Premium AUTO*1
  See pages 29 through 32 for details.
- Auto Optimum Night Scene
- Auto Optimum Lighting
- Intelligent AF
- Landscape Effect
- Make-up Mode
- Face Detection
- 6x Single Frame SR Zoom*2
  SR = Super Resolution
- CCD Shift Stabilization
- High-speed AF 0.17 seconds*3
- Auto Shutter
- Art Shot
- Tracking AF
- 2.7-inch Super Clear LCD
- HD Movie
- Quick Mode

The elegantly thin card camera that incorporates a host of modern concepts.

• **SILVER** EX-S200SR • **ORANGE** EX-S200EO • **BLUE** EX-S200BE • **PINK** EX-S200PK • **BLACK** EX-S200BK

EXILIM Engine 5.0 | Premium AUTO | 14.1 Megapixels | 4x Optical Zoom | 6x*2 SR Zoom | 27mm*4 Wide-angle Lens | 2.7" Super Clear LCD | 270*5 Battery Life | 42 BEST SHOT | YouTube READY

*1. These features and modes can be selected individually when Premium AUTO is off. *2. Super-resolution Technology enhances zooming by up to 1.5 times of optical zoom while maintaining clarity and image quality. *3. Approximate; full wide angle. Auto Focus speed measurement conditions defined by CASIO. *4. Converted to 35mm film format. *5. Approximate; CIPA standards. Normal screen brightness (based on CASIO data)

Z800

- Premium AUTO*1
  See pages 29 through 32 for details.
- Auto Optimum Night Scene
- Auto Optimum Lighting
- Intelligent AF
- Landscape Effect
- Make-up Mode
- Face Detection
- 6x Single Frame SR Zoom*2
  SR = Super Resolution
- One-touch Operation Buttons
  See page 36 for details.
- CCD Shift Stabilization
- High-speed AF 0.17 seconds*3
- Auto Shutter
- Art Shot
- Tracking AF
- Selectable Focus Frame and Menu Color
- HD Movie

Powerful performance in a selection of fun colors.

• **VIVID PINK** EX-Z800VP • **SILVER** EX-Z800SR • **PINK** EX-Z800PK • **YELLOW** EX-Z800YW • **BLUE** EX-Z800BE • **BLACK** EX-Z800BK

EXILIM Engine 5.0 | Premium AUTO | 14.1 Megapixels | 4x Optical Zoom | 6x*2 SR Zoom | 27mm*4 Wide-angle Lens | 2.7" LCD | 280*5 Battery Life | 35 BEST SHOT | YouTube READY

• SR = Super Resolution • Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

NEW ZS10

Easier than ever to use. 16.5mm thin*4 stylishness.

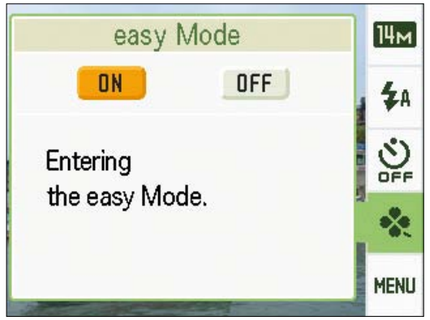
- New easy Mode
  - Face Detection
  - Continuous AF*1
- One-touch Operation Buttons
- Lighting
- Tracking AF
- Anti Shake Mode
- HD Movie
- Selectable Focus Frame
- Simple USB Charging
- Red Eye Correction

● **RED** EX-ZS10RD ● **PINK** EX-ZS10PK ● **BLACK** EX-ZS10BK
● **BLUE** EX-ZS10BE ● **SILVER** EX-ZS10SR

14.1	5x	26mm*2	2.7"	190*3	23	YouTube READY
Megapixels	Optical Zoom	Wide-angle Lens	LCD	Battery Life	BEST SHOT	

*1. In easy Mode *2. Converted to 35mm film format. *3. Approximate; CIPA standards (based on CASIO data) *4. Excluding projections.
• Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

Simple operation, beautiful images. Useful image recording support.



NEW easy Mode

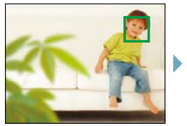
In the easy Mode, often-used functions are displayed using large icons and large, easy-to-understand text. Simply follow the instructions for quick, simple, error-free images. The camera takes care of difficult focusing and other settings automatically. It's the easy way to shoot the images you want.

Auto Focus without half-pressing the shutter button

Conventional cameras...

Pressing the shutter button half way focuses the image. This method often results in blurred images.

With easy Mode...



Simply point the camera. It detects faces and focuses automatically.

Even if the subject moves, focus is adjusted automatically.

Simply press the shutter button!

Simply point the camera at the subject and the camera focuses on it automatically. Focus is adjusted if the subject moves. While the focus frame is green, simply press the shutter button for a perfectly focused image.

BEST SHOT

Simply select a sample scene from the menu of images that appear on the screen and the camera sets up automatically for the type of image you selected.

* Types of BEST SHOT scenes that are built-in depends on the camera model.

Children

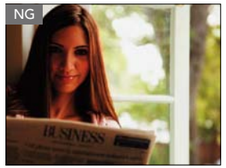
Pet

Flower

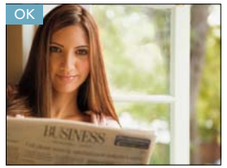
Lighting

Even back-lit scenes, which tend to come out too dark, are made simple by automatic correction that brightens the foreground subject while ensuring the background is not overexposed.

NG



OK



One-touch Operation Buttons

REC — Press to enter the REC mode. Then just press the shutter button to record.

PLAY — Press to view images that you shot, as soon as you shoot them.

Delete — Press to instantly delete images you no longer need.

Anti Shake Mode

Higher sensitivity and faster shutter speeds reduce the chance of image blur due to hand and subject movement, making it possible to capture clear images without using the flash.

NG

OK

NEW ZS5

- New easy Mode
  - Face Detection
  - Continuous AF*1
- One-touch Operation Buttons
- Lighting
- Tracking AF
- Anti Shake Mode
- Selectable Focus Frame
- Simple USB Charging
- Red Eye Correction

14.1 Megapixels | 5x Optical Zoom | 26mm*2 Wide-angle Lens | 2.7" LCD | 180*3 Battery Life | 23 BEST SHOT | YouTube READY

PINK EX-Z5PK
BLACK EX-Z5BK
SILVER EX-Z5SR
ORANGE EX-Z5EO

*1. In easy Mode *2. Converted to 35mm film format. *3. Approximate; CIPA standards (based on CASIO data)
• Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

FH100

The compact high-speed zoom camera with perfection built in.

- High-sensitivity CMOS Sensor
- 40 fps (Max.) High-speed Continuous Shutter (Maximum shots: 30 / 9-megapixel)
- High Speed BEST SHOT
- 1,000 fps High-speed Movie (Max.)
- CMOS Shift Stabilization
- Manual exposure settings
- HD Movie (stereo)
- HDMI™ Output (mini)*1*2

BLACK EX-FH100BK

SILVER EX-FH100SR

High sensitivity CMOS sensor | 10.1 Megapixels | 10x Optical Zoom | 24mm*4 Wide-angle Lens | 3.0" Super Clear LCD | 520*4 Battery Life | 27 BEST SHOT | YouTube READY

H5

24mm*3 wide-angle 10x optical zoom lens helps make travel photos more dramatic and exciting.

- One-touch Operation Buttons
  See page 36 for details.
- Auto Optimum Night Scene
- Auto Optimum Lighting
- Intelligent AF
- Landscape Effect
- Make-up Mode
- Face Detection
- CCD Shift Stabilization
- High-speed AF 0.15 seconds*5
- Auto Shutter
- Art Shot
- Tracking AF
- Anti Shake DSP
- HD Movie

SILVER EX-H5SR

BLACK EX-H5BK

RED EX-H5RD

EXILIM Engine 5.0 | 12.1 Megapixels | 10x Optical Zoom | 24mm*4 Wide-angle Lens | 2.7" LCD | 240*4 Battery Life | 41 BEST SHOT | YouTube READY

Z370

14-megapixel model, friendly to everyone in your family.

- easy Mode
  - Face Detection
  - Continuous AF*6
- Lighting
- Tracking AF
- Anti Shake Mode
- Selectable Focus Frame
- Red Eye Correction

SILVER EX-Z370SR

PURPLE EX-Z370PE

PINK EX-Z370PK

BLACK EX-Z370BK

14.1 Megapixels | 4x Optical Zoom | 27mm*4 Wide-angle Lens | 2.7" LCD | 220*4 Battery Life | 23 BEST SHOT | YouTube READY

Z16

Useful functions to support your digital imaging. The fun to use 12-megapixel camera.

- easy Mode
  - Face Detection
  - Continuous AF*6
- Lighting
- Tracking AF
- Anti Shake Mode
- Selectable Focus Frame
- Simple USB Charging
- Red Eye Correction

PINK EX-Z16PK

SILVER EX-Z16SR

BLACK EX-Z16BK

RED EX-Z16RD

12.1 Megapixels | 3x Optical Zoom | 2.7" LCD | 170*4 Battery Life | 23 BEST SHOT | YouTube READY

*1. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. *2. 1080 / 50i output is not supported for PAL output using HDMI™. *3. Converted to 35mm film format. *4. Approximate; CIPA standards. Standard LCD brightness for models with screen brightness setting. (based on CASIO data) *5. Approximate; full wide angle. Auto Focus speed measurement conditions defined by CASIO.

*6. In easy Mode • Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

EXILIM G

G1

Toughness Technology

- **Shock Resistant*1**

-Shock resistant construction that passed drop testing from a height of 2.13 meters onto plywood (lauan).

- **Waterproof*2**

-Can be used for up to 60 minutes underwater at a depth of 3 meters.

- **Dustproof*3**

-Dustproof construction prevents the invasion of sand and dust.

- **Freezeproof*4**

- Can be operated at -10°C

AUTO BEST SHOT

See page 34 for details.

BEST SHOT

- Snow mode
- Beach mode
- Underwater mode
- Interval Snapshot / Interval Movie

Auto Optimum Lighting

Intelligent AF

Landscape Effect

Make-up Mode

High-speed AF
0.24 seconds*5

Auto Shutter

Tracking AF

Anti Shake DSP

Developed for endurance.

The EX-G1 is designed to stand up to the most rigorous conditions and bring back images of your adventures no matter how tough the going gets. A 19.9mm slim body incorporates much of the shock-resistant engineering of the CASIO G-SHOCK watch, for the ultimate in toughness and endurance.

Nimble design that's built to last.
The slim, asymmetrical design of the EX-G1 delivers a superior hold and outstanding portability. A stainless steel body, which keeps external impact from reaching internal components, houses an inner casing that makes the camera both shock proof and water proof.

LCD with improved shock resistance.
The LCD panel uses an acrylic panel that is 1.5 times thicker than conventional panels, which is protected by a hard coat finish. All of this provides improved water pressure and shock resistance for greater durability. An original camera configuration ensures a clear field of view, even under the most rigorous of conditions.

A lens designed to stand up to rough environments.
The lens employs a CASIO original shock absorber. A reinforced glass lens cover is protected by a reflection-resistant, water-repellent multi coating. A shock-resistant gel sheet provides even further protection.

Buckle lock system contributes to waterproofing and shock resistance.
A CASIO original buckle lock system is used in place of screws to secure the inner body, which makes it possible to design a slim configuration without sacrificing water resistance and shock resistance.

BODY COLORS

GREEN *Limited Color*
EX-G1GN

SILVER *Limited Color*
EX-G1SR

BLACK
EX-G1BK

RED
EX-G1RD

PROTECTORS
Two types of protectors are included. Both complement the tough, hard-edged styling.

*1. This camera has passed drop testing from a height of 2.13 meters / 7 feet onto plywood (lauan material), based on CASIO test conditions. (6 faces, 8 corners, 12 edges:Total of 26 drops.) *2. Corresponds to IEC/JIS Protection Class 8 (IPX8)* and Protection Class 6 (IPX6) equivalent waterproofing that allows immersion up to 3.0 meters for 60 minutes and protection against jet spray from all directions. * IPX8 under CASIO test conditions. *3. Corresponds to IEC/JIS Protection Class 6 (IP6X) dustproofing. *4. Operating Temperature Requirements: -10 to 40°C *5. Approximate; full wide angle. Auto Focus speed measurement conditions defined by CASIO. *6. Approximate; CIPA standards. Normal screen brightness (based on CASIO data) • Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

Premium AUTO

Revolutionary auto mode technology that makes it possible to perform countless analysis and processing tasks simultaneously. Simply press the shutter button and the camera instantly analyzes shooting conditions and configures settings and performs corrections accordingly. Amazing technology that even outperforms the human eye.

ZR100 | ZR10 | H20G | H30 | H15 | Z2300 | S200 | Z800

Imaging technology that outperforms the human eye. Revolutionary automation that performs multiple analysis and processing tasks simultaneously.

CASIO-original Premium AUTO continually performs multiple analysis, setup, and processing tasks simultaneously before the final image is produced. Simply press the shutter button and the camera instantly analyzes shooting conditions and configures settings accordingly before it records. After recording, the camera reanalyzes the image and corrects colors, gradations, and other factors to produce an image that is virtually an exact reproduction of what you saw with your own eyes. Each image is the product of some of the most advanced digital technology available today.

Premium AUTO System

Before shooting

The camera measures and calculates shooting environment factors and configures the camera setup accordingly.

- Face detection
- Subject location suggestion
- Distance analysis
- Area-specific color analysis
- Tripod detection
- Light source detection
- Night scene detection

When shooting

The camera is automatically configured with settings to suit current shooting conditions, base on image analysis.

- Image stabilization
- AF point control
- Shutter speed control
- ISO sensitivity control
- Flash intensity control

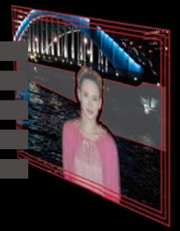


Image adjustment and processing

The recorded image signal is re-analyzed and each area of the image is processed as required.

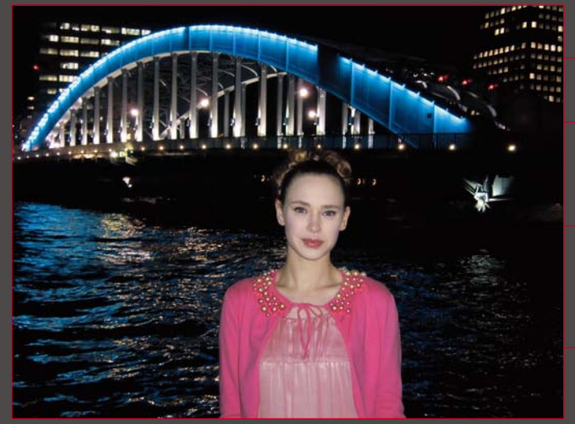
- Red eye correction
- Noise reduction
- Make-up Mode
- Color tone processing

High resolution and outstanding image quality for an ideal image.

In the case of a night scene, Premium AUTO reproduces a background of the same brightness as perceived by the human eye. At the same time, the effect of the flash on the face of the foreground subject is suppressed, resulting in an image that is even more natural looking than that perceived by the human eye. Each area of the image is processed for high resolution and outstanding image quality*, creating an ideal final image. * Premium AUTO does more than just shoot what you see. It is image quality that is near the "this is the shot I want" implicit need of the photographer.

Conventional AF

- Image blur
- Flash causes background to black out
- Facial shadows and shininess
- Prone to digital noise



Auto Optimum Night Scene

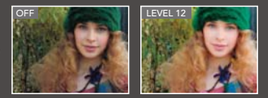
The camera judges whether it is being held by hand or mounted on a tripod. If hand-held, it automatically enables the appropriate image stabilization, and configures shutter speed and ISO sensitivity settings as required. Also, image data is analyzed, and colors and white balance are corrected for each area of the image.

Intelligent Color (Area-specific white balance control)

The camera analyzes the color temperature of the recorded image and determines differences in lighting sources (flash, background light bulb, etc.), and adjusts white balance accordingly for each area of the image. The result is more natural colors across the entire image.

Make-up Mode and Digital Foundation

The Make-up Mode and Digital Foundation analyze image data and correct for shadowing and shininess, which are caused by skin tone and flash, for a more natural look.



Noise reduction

Finely detailed analysis of the recorded image signal makes it possible to vary both the method and the intensity of digital noise filtering applied to each area of the image. Noise components and picture components are treated separately, which allows removal of digital noise without affecting the image.

• Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

The camera with professional know-how built in, for ideal images every time.

Premium AUTO keeps track of a virtually unlimited combination of parameters that affect shooting conditions to configure settings and perform corrections as required. For example, different types of subjects in the same night scene require different techniques. Whether shooting human portraits, animals, or scenery, Premium AUTO automatically analyzes, configures settings, and performs processes to match the moment precisely.

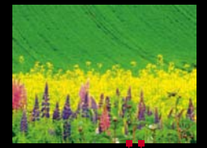
Face detection
(Face size / Number of faces)

Make-up Mode

Intelligent AF

Auto Macro

Noise reduction



Intelligent AF

Landscape Effect /
Saturation adjustment

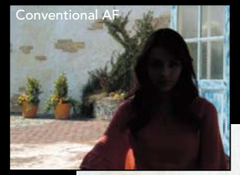
Moving subject analysis

Intelligent AF

Continuous AF

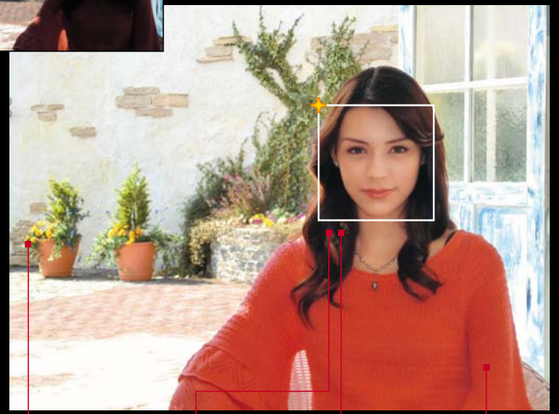
ISO sensitivity control

Conventional AF



Portrait with Back-lighting

The face is bright and skin tones
are smoother.



Pixel-level saturation adjustment

Face detection

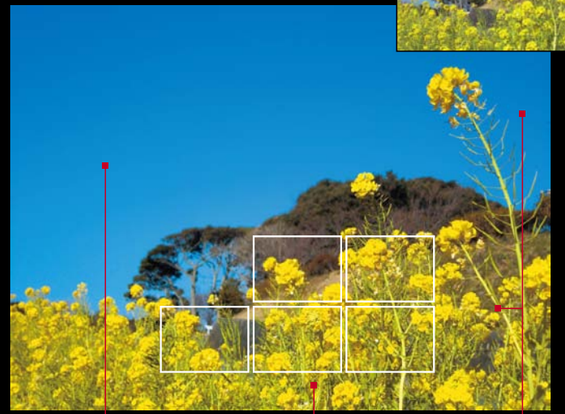
Make-up Mode

Backlight detection

Scenery

Sky and greenery
come out more vivid.

Conventional AF



Sky detection

Intelligent AF

Landscape Effect /
Saturation adjustment

Night scene detection

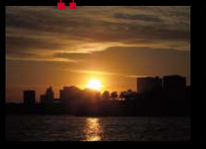
Tripod detection

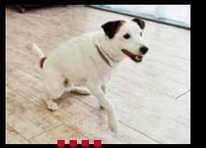
Intelligent AF

Noise reduction

Sunset detection

Intelligent AF





Face detection

Greenery detection

Make-up Mode

Moving subject analysis

Intelligent AF

Continuous AF

ISO sensitivity control

• Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

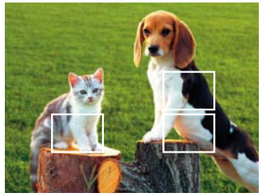
EXILIM original functions for perfect images every time.

Intelligent AF

ZR100 | ZR10 | H20G | H30 | H15 | Z2300 | S200 | Z800 | G1 | H5

Simply aim the EXILIM and it automatically analyzes the composition of the subject, and then dynamically adjusts the position, size, and number of focus frames on the screen. Since the camera automatically arranges focus frames, there is less chance of an image being out of focus. Any human faces the camera detects in the image are given priority when assigning focus frames.

With standard AF, the camera focuses automatically on the center so the subjects on either side are out of focus.



EXILIM detects subjects and positions focus frames in the optimum locations.

Small subjects are enclosed by small focus frames.

EXILIM automatically positions focus frames according to image conditions.

Landscape Effect : Vivid Landscape

H20G | H30 | H15 | Z2300 | S200 | Z800 | G1 | H5

While the Landscape Effect is selected, the camera determines colors that are most striking to the human eye and adjusts their saturation on a pixel basis to make them more vivid. The saturation level can be adjusted to either of two different levels.

OFF

LEVEL 2

Make-up Mode

H20G | H30 | H15 | Z2300 | S200 | Z800 | G1 | H5

The Make-up Mode records portraits that appear naturally lighted, even when shooting in the shade. You can select one of 12 different Make-up Mode levels, all of which produce smoother skin textures.

OFF

LEVEL 12

Self Portrait Auto Shutter

H30 | H15 | S200 | Z800 | H5 | G1

The camera automatically detects facial expressions and potential image blur, and waits until everything is just right before releasing the shutter. The Make-up Mode is also operated automatically to enhance skin tones and textures.

Art Shot

H15 | Z2300 | S200 | Z800 | H5

This unique feature transforms snapshots into oil painting, crayon, or watercolor images when you press the shutter button. You also can transform* previously recorded images to simulated works of art.

*S200, Z800, Z2300 and H5 only

Oil Painting

AUTO BEST SHOT G1

Simply aim at the subject.
The camera detects the scene type and sets up automatically!

The camera detects focus, brightness, face, movement, and other factors, and then selects one of six BEST SHOT sample scenes to match shooting conditions. All you need do is press the shutter button for perfect images every time. Pointing the camera at a person, for example, causes the "Portrait" scene to be selected, and the camera adjusts so the person's face fills the screen.

Portrait

Scenery

Night Scene

Night Scene Portrait

Macro

Sports (Movement)

BEST SHOT

ZR100 | ZR10 | H20G | H30 | H15 | Z2300 | S200 | Z800
ZS10 | ZS5 | G1 | H5 | FH100 | Z370 | Z16

Simply select a sample scene from the menu of images that appears on the screen and the camera sets up automatically for the type of image you selected.

* Types of BEST SHOT scenes that are built-in depends on the camera model.

Children

Pet

Fireworks

Text

For YouTube

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Advance features help you avoid spoiled shots.

Auto Optimum Night Scene

ZR100 | ZR10 | H20G | H30 | H15 | Z2300 | S200 | Z800 | H5

The camera automatically detects whether or not it is mounted on a tripod. If it detects hand-held operation, the high-speed image processing CPU performs high-level dark area correction and digital noise filtering. Even when shooting without a tripod, image blur is suppressed for high-quality night scene images.

With normal flash, the background is dark.

Image blur occurs when a tripod is not used.

Subject and background are bright, image blur is minimal.

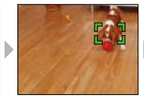
Tracking AF

ZR100 | ZR10 | H20G | H30 | H15 | Z2300 | S200 | Z800 | ZS10 | ZS5 | G1 | H5 | FH100 | Z370 | Z16

Auto tracking and focusing of moving subjects

Tracking AF locks onto a moving subject and adjusts focus as required. Even if the subject exits the frame, Tracking AF remembers the subject and picks it up again automatically when it re-enters. Focus is continually updated until the shutter button is pressed.

Teach the camera the subject!



Auto Tracking

Continual tracking, even if the subject is out of view

Auto Tracking restarts.

Auto Optimum Lighting

ZR100 | ZR10 | H20G | H30 | H15 | Z2300 | S200 | Z800 | G1 | H5

Backlit subjects (which often produce a subject with a dark face) also come out with natural brightness, without special setups. Overexposure of the background is suppressed, producing a sky that is as blue and beautiful as the real thing. Improved gradation provides rich detail in the blue sky and more natural shading of the skin.

Background is clear, but face is dark.

Face is bright, but sky is overexposed.

Simply press the shutter button! Face and sky look as good as the real thing.

Face Detection

ZR100 | ZR10 | H20G | H30 | H15 | Z2300 | S200 | Z800 | ZS10 | ZS5 | G1 | H5 | FH100 | Z370 | Z16

Face Detection for automatic face focusing and brightness adjustment

The camera locates faces anywhere within the monitor screen area and optimizes focus and brightness. Even in backlit scenes, faces come out bright and clear.

Automatic tracking and focusing of faces

Even when a subject is moving, the camera automatically follows the detected face, while updating the focus setting.

Anti Blur

ZR100 | ZR10 | H20G | H30 | H15 | Z2300 | S200 | Z800 | ZS10 | ZS5 | G1 | H5 | FH100 | Z370 | Z16

CCD / CMOS* Shift Stabilization

(Excluding ZS10, ZS5, G1, Z370, Z16)

This feature stabilizes the image mechanically during recording whenever camera movement is detected. Images come out crisp and clear, even under conditions that are prone to camera movement.

Anti Shake DSP / Anti Shake Mode

Higher sensitivity and faster shutter speeds reduce the chance of image blur due to hand and subject movement, making it possible to capture clear images without using the flash.

Auto ISO sensitivity control (Excluding ZS10, ZS5, FH100, Z16)

The camera increases ISO sensitivity automatically to minimize blur when it detects subject movement, and decreases sensitivity to minimize digital noise when it detects that the subject is stationary.

Anti Blur Auto Shutter (Excluding ZR100, ZR10, H20G, ZS10, ZS5, FH100, Z370, Z16)

Hand movement during shutter button operation is the leading cause of image blur. Anti Blur Auto Shutter eliminates this, and also minimizes the chance of ruined images, by releasing the shutter automatically when the camera detects that the camera and subject are still.

One-touch Operation Buttons

Z800 | ZS10 | ZS5 | H5

Basic functions are assigned to three buttons for quick and simple operation.

REC Press to enter the REC mode. Then just press the shutter button to record.

PLAY Press to view images that you shot, as soon as you shoot them.

Delete Press to instantly delete images you no longer need.

Super Clear LCD

ZR100 | ZR10 | H20G | H30 | H15 | Z2300 | S200 | G1 | FH100

Clear high-performance LCD

The LCD monitor screen is designed to deliver high brightness, a wide viewing angle, and high contrast under a wide range of viewing environments. Even outdoors, images appear sharp and easy to view.

460,000-pixel high-definition LCD

(ZR100, ZR10, H20G, H30, H15 and Z2300 only)

A high-definition LCD monitor screen makes displayed images look better than ever. The display maintains the field of view that existed when shooting the image, so images look as good as they did when you shot them.

• Screen and printed images shown in this catalog are simulations for explanatory purposes only. Actual images may appear different from those shown here.

Functions

	ZR100 (P.3)	ZR10 (P.3)	H20G (P.11)	H30 (P.15)	H15 (P.16)	Z2300 (P.17)	S200 (P.19)	Z800 (P.20)	ZS10 (P.21)	ZS5 (P.24)	G1 (P.27)	FH100 (P.25)	H5 (P.25)	Z370 (P.26)	Z16 (P.26)
Premium AUTO / AUTO BEST SHOT	Premium AUTO	Premium AUTO	Premium AUTO	Premium AUTO	Premium AUTO	Premium AUTO	Premium AUTO	Premium AUTO			AUTO BS				
BEST SHOT (Number of Scenes)	32	40	27	36	42	40	42	35	23	23	25	27	41	23	23
Smile Detection Auto Shutter				●	●	●	●	●			●		●		
Anti Blur Auto Shutter				●	●	●	●	●			●		●		
Panning Auto Shutter				●	●	●	●	●			●		●		
Self Portrait Auto Shutter				●	●	●	●	●			●		●		
Auto Macro	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Snapshot In Movie*1	●	●		●	●	●	●	●	●	●	●	●	●	●	●
RGB Histogram	●	●	●	●	●	●	●	●			●	●		●	●
Monitor Screen Grid	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Soft Flash			●		●	●	●	●			●		●		
Red Eye Reduction	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Red Eye Correction				●	●	●	●		●	●	●			●	●
White Balance Adjustment	●	●	●	●	●	●	●	●			●	●			
Timestamp	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
World Time	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PictBridge	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Wide TV Output	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Prerecord Movie	●	●		●	●	●	●	●			●	●	●		
MOTION PRINT	●	●		●	●	●	●				●	●			
Movie Editing	●	●	●	●	●	●	●	●			●	●	●		
High Speed Anti Shake	●	●										●			
High Speed Night Scene	●	●										●			
Prerecord Continuous Shutter	●	●										●			
Lag Correction	●	●										●			
High Speed Best Selection	●	●										●			
Multi-motion image				●	●	●	●	●			●	●	●		
Manual exposure settings	●			●								●			
Eye-Fi Wireless Card compatible			●	●	●	●	●*2	●*2	●	●		●	●	●	●

Bundled Software (See the CASIO Digital Camera website for details about operating environments and updates.)

Windows®	ZR100	ZR10	H20G	H30	H15	Z2300	S200	Z800	ZS10	ZS5	G1	FH100	H5	Z370	Z16
Dynamic Photo Manager*	●	●	●	●	●	●	●	●			●		●		
Photo Transport*	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Virtual Painter 5 LE for CASIO*	●			●					●	●					
YouTube™ Uploader for CASIO*	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Picasa™* / Google Earth™*			●												

* Dynamic Photo Manager, Photo Transport, Virtual Painter 5 LE for CASIO and YouTube™ Uploader for CASIO do not support operation under a 64bit Windows® operating system.

*1. Snapshot In Movie disabled during High-speed Movie recording. *2. Use of an Eye-Fi X2 card is not recommended. • YouTube upload functionality is included under license from YouTube LLC. The presence of YouTube upload functionality in this product is not an endorsement or recommendation of the product by YouTube LLC.

Operating Systems for Movie Playback

Windows® XP / 7 / Windows Vista®	Recommended Computer System	Required Software
AVI (Motion JPEG)	CPU: Pentium 4 3.2 GHz or higher	Windows Media Player / DirectX® 9.0c or higher
MOV format (H.264 / AVC)	Image Quality: FHD / HD CPU: Core 2 Duo 3.0 GHz or higher	QuickTime® 7 or higher (Windows Media Player playback supported with Windows® 7.)
	Image Quality: STD CPU: Pentium 4 3.2 GHz or higher	

Mac OS®	Recommended Computer System	Required Software
AVI (Motion JPEG)	OS 10.3.9 or higher	QuickTime® 7 or higher
MOV format (H.264 / AVC)	Image Quality: FHD / HD OS X 10.4.11 or higher	QuickTime® 7 or higher
	Image Quality: STD OS X 10.3.9 or higher	

Minimum Computer System Requirements

	Windows®		Windows Vista®
	XP	7	
Dynamic Photo Manager*	● (SP3)	●	●
Photo Transport*	● (SP3)	●	●
Virtual Painter 5 LE for CASIO*	● (SP3)	●	●
YouTube™ Uploader for CASIO*	● (SP3)	●	●
Picasa™* / Google Earth™*	● (SP3)	●	●

* Dynamic Photo Manager, Photo Transport, Virtual Painter 5 LE for CASIO and YouTube™ Uploader for CASIO do not support operation under a 64bit Windows® operating system.

Computer Connection Environment

Operates on connection of USB cable using the operating system's standard USB driver. Software installation not required.
Windows® 2000 / XP (SP3) / 7 / Windows Vista®
Macintosh OS9/OS X (10.1, 10.2, 10.3, 10.4, 10.5, 10.6)

* This product's YouTube upload functionality is included under license from YouTube LLC. The presence of YouTube upload functionality in this product is not an endorsement or recommendation of the product by YouTube LLC

Important! The above are recommended system environments. Configuring one of these environments does not guarantee proper operation. Even if your computer meets the minimum requirements described above, certain settings and other installed software may interfere with proper playback of movies.

• YouTube and the YouTube logo are trademarks of YouTube LLC. • Virtual Painter 5 LE for CASIO was developed with the assistance of Uemura Taka Software Design, Inc. • Google, Google Earth, and Picasa are registered trademarks of Google Inc. • Macintosh, Mac OS,QuickTime are registered trademarks of Apple Inc. ©2009 Apple Inc. All rights reserved. • Microsoft, Windows Vista, Windows, DirectX are registered trademarks or trademarks of Microsoft Corporation. ©2009 Microsoft Corporation. All rights reserved. • PRINT Image Matching for print commands are embedded in the header files of images created by the digital camera. Print commands include color settings and image parameter information. Other company, product, and service names used herein may also be trademarks or service marks of others. • DCF stands for "Design Rule for Camera File System." • The liquid crystal built into this camera is the product of precision engineering, with a pixel yield of 99.99%. This also means, however that 0.01% of the pixels can be expected to fail to light or to remain lit at all times. • All screens shown in this catalog are photographic images. Actual screens differ from those shown here. • **Designs and specifications are subject to change without notice. The printing process may cause colors to differ somewhat from those of the actual product.**

SPECIFICATION CHART

	EX-ZR100	EX-ZR10	EX-H20G	EX-H30
Number of Effective Pixels	Approximately 12.1 megapixels	Approximately 12.1 megapixels	Approximately 14.1 megapixels	Approximately 16.1 megapixels
Image Sensor	1/2.3-inch high-speed CMOS (Total pixels: 12.75 megapixels)	1/2.3-inch high-speed CMOS (Total pixels: 12.75 megapixels)	1/2.3-inch square pixel CCD (Total pixels: 14.48 megapixels)	1/2.3-inch square pixel CCD (Total pixels: 16.57 megapixels)
File Format	• Snapshots: JPEG (Exif Ver. 2.3), DCF 2.0 standard, DPOF compliant • Movies: MOV format, H.264 / AVC, IMA-ADPCM (stereo)	• Snapshots: JPEG (Exif Ver. 2.3), DCF 2.0 standard, DPOF compliant • Movies: MOV format, H.264 / AVC, IMA-ADPCM (stereo)	• Snapshots: JPEG (Exif Ver. 2.3), DCF 2.0 standard, DPOF compliant • Movies: MOV format, H.264 / AVC, IMA-ADPCM (monaural)	• Snapshots: JPEG (Exif Ver. 2.3), DCF 2.0 standard, DPOF compliant • Movies: AVI format, Motion JPEG, IMA-ADPCM (monaural) • Audio (Voice Recording): WAV (monaural)
Recording Media	52.2 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card	62.1 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card	14.5 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card	34.9 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card
Number of Recorded Pixels (Snapshots)	4,000 x 3,000 / 4,000 x 2,656 (3:2) / 4,000 x 2,240 (16:9) / 3,648 x 2,736 / 3,264 x 2,448 / 2,560 x 1,920 / 2,048 x 1,536 / 640 x 480 (VGA)	4,000 x 3,000 / 4,000 x 2,656 (3:2) / 4,000 x 2,240 (16:9) / 3,648 x 2,736 / 3,264 x 2,448 / 2,560 x 1,920 / 2,048 x 1,536 / 640 x 480 (VGA)	4,320 x 3,240 / 4,320 x 2,880 (3:2) / 4,320 x 2,432 (16:9) / 3,648 x 2,736 / 2,816 x 2,112 / 2,048 x 1,536 / 640 x 480 (VGA)	4,608 x 3,456 / 4,608 x 3,072 (3:2) / 4,608 x 2,592 (16:9) / 3,648 x 2,736 / 2,560 x 1,920 / 2,048 x 1,536 / 640 x 480 (VGA)
Lens / Focal Length	9 lenses in 8 groups, including aspherical lens; F3.0 (W) to F5.9 (T) (Approximately 24 to 300 mm equivalent to 35 mm film)	8 lenses in 7 groups, including aspherical lens; F3.0 (W) to F5.9 (T) (Approximately 28 to 196 mm equivalent to 35 mm film)	11 lenses in 10 groups, including aspherical lens; F3.2 (W) to F5.7 (T) (Approximately 24 to 240 mm equivalent to 35 mm film)	9 lenses in 8 groups, including aspherical lens; F3.0 (W) to F5.9 (T) (Approximately 24 to 300 mm equivalent to 35 mm film)
Zoom	12.5x optical zoom, 25x Multi Frame SR Zoom*3, 4x digital zoom, HD Zoom with digital zoom: 199.3x max. (VGA size)	7x optical zoom, 14x Multi Frame SR Zoom*3, 4x digital zoom, HD Zoom with digital zoom: 111.6x max. (VGA size)	10x optical zoom, 15x Single Frame SR Zoom*4, 4x digital zoom, HD Zoom with digital zoom: 159.4x max. (VGA size)	12.5x optical zoom, 18.8x Single Frame SR Zoom*4, 4x digital zoom HD Zoom with digital zoom: 199.3x max. (VGA size)
Focus	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Super Macro, Infinity, Manual Focus • AF Area: Intelligent, Spot, 9-point multi, Auto Tracking • Focus Lock • AF Assist Light	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Infinity, Manual Focus • AF Area: Intelligent, Spot, 9-point multi, Auto Tracking • Focus Lock • AF Assist Light	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Super Macro, Infinity, Manual Focus • AF Area: Intelligent, Spot, 9-point multi, Auto Tracking • Focus Lock • AF Assist Light	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Super Macro, Infinity, Manual Focus • AF Area: Intelligent, Spot, 9-point multi, Auto Tracking • Focus Lock • AF Assist Light
Approximate Focus Range	• Snapshots / Movies: Auto Focus: 5 cm to ∞ (W) / Macro: 1 to 50 cm (Fifth step from widest setting) / Super Macro: 1 to 50 cm / Infinity: ∞ / Manual Focus: 5 cm to ∞ (W) *From lens surface. *Range is affected by optical zoom.	• Snapshots / Movies: Auto Focus: 2 cm to ∞ (W) / Macro: 2 to 50 cm (First step from widest setting) / Infinity: ∞ / Manual Focus: 2 cm to ∞ (W) *From lens surface. *Range is affected by optical zoom.	• Snapshots / Movies: Auto focus: 15 cm to ∞ (W) / Macro: 7 to 50 cm (First step from widest setting) / Super Macro: 7 to 50 cm *From lens surface. *Optical zoom changes range.	• Snapshots / Movies: Auto focus: 5 cm to ∞ (W) / Macro: 1 to 50 cm (Fifth step from widest setting) / Super Macro: 1 to 50 cm *From lens surface. *Optical zoom changes range.
Exposure	• Metering: Multi pattern, Center Weighted, Spot by imaging element • Control: Program AE, Aperture Priority AE, Shutter Speed Priority AE, Manual Exposure • Compensation: -2 EV to +2 EV (in 1/3 EV steps)	• Metering: Multi pattern, Center Weighted, Spot by imaging element • Control: Program AE • Compensation: -2 EV to +2 EV (in 1/3 EV steps)	• Metering: Multi pattern, Center Weighted, Spot by imaging element • Control: Program AE • Compensation: -2 EV to +2 EV (in 1/3 EV steps)	• Metering: Multi pattern, Center Weighted, Spot by imaging element • Control: Program AE • Compensation: -2 EV to +2 EV (in 1/3 EV steps)
Shutter Type / Shutter Speed	CMOS electronic shutter, Mechanical shutter • Auto (Program AE) / Aperture Priority AE: 1 to 1/2000 second • Shutter Speed Priority AE / Manual Exposure: 15 to 1/2000 second *Shutter speeds up to 1/40000 second are supported only when shooting in the High-speed CS mode with Shutter Speed Priority AE / Manual Exposure. *May differ due to camera setup.	CMOS electronic shutter, Mechanical shutter • Auto (Program AE): 1 to 1/2000 second • Night Scene: 4 seconds maximum *May differ due to camera setup.	CCD shutter, Mechanical shutter • Auto (Program AE): 1/2 to 1/2000 second • Night Scene: 4 seconds maximum *May differ due to camera setup.	CCD shutter, Mechanical shutter • Auto (Program AE): 1/2 to 1/2000 second • Aperture Priority AE: 1 to 1/2000 second • Shutter Speed Priority AE / Manual Exposure: 8 to 1/2000 second • Night Scene: 4 seconds maximum *May differ due to camera setup.
Aperture	F3.0 (W) to F7.9 (W) *With ND filter. *Optical zoom and record mode change aperture value.	F3.0 (W) to F8.8 (W) *With ND filter. *Optical zoom and record mode change aperture value.	F3.2 (W) to F7.5 (W) *With ND filter. *Optical zoom changes aperture value.	F3.0 (W) to F7.9 (W)*5 *Optical zoom changes aperture value.
White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance
Sensitivity (SOS / REI)*1	• Snapshots: Auto, ISO100, ISO200, ISO400, ISO800, ISO1600, ISO3200	• Snapshots: Auto, ISO100, ISO200, ISO400, ISO800, ISO1600, ISO3200	Auto, ISO80, ISO100, ISO200, ISO400, ISO800, ISO1600, ISO3200	Auto, ISO80, ISO100, ISO200, ISO400, ISO800, ISO1600, ISO3200
Recording Functions	Premium AUTO, Snapshot by Super-resolution Technology, Face Detection, High-speed Continuous Shutter (40 fps max.), Prerecord Continuous Shutter, F Continuous shooting, 360° Slide Panorama, Auto Macro, High-speed Movie (audio recording supported only during 30 fps when using 30-240), FHD Movie, BEST SHOT, CS in Movie	Premium AUTO, Snapshot by Super-resolution Technology, Face Detection, High-speed Continuous Shutter (40 fps max.), Prerecord Continuous Shutter, F Continuous shooting, 360° Slide Panorama, Auto Macro, High-speed Movie (Audio recording supported only during 30 fps when using 30-240), FHD Movie, BEST SHOT, CS in Movie	Premium AUTO, Snapshot by Super-resolution Technology, Landscape Effect, Make-up Mode, Auto Shutter, Face Detection, 360° Slide Panorama, Auto Macro, BEST SHOT, HD Movie, Geotagging with photo and movie (latitude and longitude coordinates, shooting direction, place name), Stamp Place	Premium AUTO, Dynamic Photo, Snapshot by Super-resolution Technology, Landscape Effect, Make-up Mode, Auto Shutter, Face Detection, Continuous Shutter (4 fps, 10 fps, Flash), 240° Slide Panorama, Auto Macro, BEST SHOT, Snapshot In Movie, Voice Recording
Playback Functions	Playback Zoom (8x), Multi-image Display, Image Rotation, Resize, Trimming, Slideshow, Dynamic Photo	Playback Zoom (8x), Multi-image Display, Image Rotation, Resize, Trimming, Slideshow, Dynamic Photo	Playback Zoom (8x), Multi-image Display, Calendar Screen, Image Rotation, Resize, Trimming, Slideshow, Dynamic Photo, Displaying photos and movies on a map	Playback Zoom (8x), Multi-image Display, Calendar Screen, Red Eye Correction, Image Rotation, Resize, Trimming, Keystone Correction, Color Restoration, Slideshow
Other	PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL), Create Folder	PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL), Create Folder	Selectable Focus Frame, Monitor Screen Brightness Adjustment, PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL), Create Folder	Selectable Focus Frame, Control Panel Customization, Monitor Screen Brightness Adjustment, PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL), Create Folder
Self-timer	10 seconds or 2 seconds, Triple Self-timer	10 seconds or 2 seconds, Triple Self-timer	10 seconds or 2 seconds, Triple Self-timer	10 seconds or 2 seconds, Triple Self-timer
Built-in Flash	• Flash Modes: Auto, Flash off, Flash on, Red Eye Reduction • Approximate Flash Range: Normal 0.3 to 4.7 m (W) / 0.9 to 2.4 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range.	• Flash Modes: Auto, Flash off, Flash on, Red Eye Reduction • Approximate Flash Range: Normal 0.3 to 3.7 m (W) / 0.6 to 1.9 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range.	• Flash Modes: Auto, Flash off, Flash on, Soft Flash, Red Eye Reduction • Approximate Flash Range: Normal 0.2 to 3.5 m (W) / 0.5 to 1.9 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range.	• Flash Modes: Auto, Flash off, Flash on, Red Eye Reduction • Approximate Flash Range: Normal 0.3 to 4.7 m (W) / 0.9 to 2.4 m (T) Flash Continuous Shutter 0.3 to 1.9 m (W) / 0.9 to 1.0 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range.
Monitor Screen	3.0-inch TFT color LCD / 460,800 dots (960 x 480)	3.0-inch TFT color LCD / 460,800 dots (960 x 480)	3.0-inch TFT color LCD / 460,800 dots (960 x 480)	3.0-inch TFT color LCD / 460,800 dots (960 x 480)
Timekeeping Functions	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Time Auto Correction With GPS, Timestamp	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp
External Connection Terminals	USB port (Hi-Speed USB compatible) / AV output terminal (NTSC / PAL) / HDMI™*6 output (Mini)* *1080/50i output is not supported for PAL output using HDMI™.	USB port (Hi-Speed USB compatible) / AV output terminal (NTSC / PAL) / HDMI™*6 output (Mini)* *1080/50i output is not supported for PAL output using HDMI™.	USB port (Hi-Speed USB compatible) / AV output terminal (NTSC / PAL) / HDMI™*6 output (Mini)* *1080/50i output is not supported for PAL output using HDMI™.	USB port (Hi-Speed USB compatible) / AV output terminal (NTSC / PAL) / HDMI™*6 output (Mini)* *1080/50i output is not supported for PAL output using HDMI™.
Power Source	Rechargeable Lithium Ion Battery (NP-130)	Rechargeable Lithium Ion Battery (NP-110)	Rechargeable Lithium Ion Battery (NP-90)	Rechargeable Lithium Ion Battery (NP-130)
Dimensions (WxHxD)	104.8 x 59.1 x 28.6 (24.2*) mm *Excluding projections.	101.9 x 58.7 x 27.4 (22.6*) mm *Excluding projections.	102.5 x 67.5 x 28.8 (24.7*) mm *Excluding projections.	104.8 x 59.1 x 28.6 (24.2*) mm *Excluding projections.
Weight	Approximately 205 g (Including Battery and Memory Card*7), Approximately 165 g (Excluding Battery and Memory Card)	Approximately 176 g (Including Battery and Memory Card*7), Approximately 149 g (Excluding Battery and Memory Card)	216 g (Including Battery and Memory Card*7), 172 g (Excluding Battery and Memory Card)	201 g (Including Battery and Memory Card*7), 161 g (Excluding Battery and Memory Card)
Bundled Accessories	Rechargeable Lithium Ion Battery (NP-130), Battery Charger, AC Power Cord, Special USB Cable, Special AV Cable, Strap, CD-ROM	Rechargeable Lithium Ion Battery (NP-110), Battery Charger, AC Power Cord, Special USB Cable, Special AV Cable, Strap, CD-ROM	Rechargeable Lithium Ion Battery (NP-90), Battery Charger, AC Power Cord, Special USB Cable, Special AV Cable, Strap, CD-ROM	Rechargeable Lithium Ion Battery (NP-130), Battery Charger, AC Power Cord, Special USB Cable, Special AV Cable, Strap, CD-ROM

*1. SOS: Standard Output Sensitivity. REI: Recommended Exposure Index. *2. Built-in memory capacity after formatting. *3. Multi Frame Super-resolution Technology enhances zooming by up to 2 times of optical zoom while maintaining clarity and image quality. *4. Super-resolution Technology enhances zooming by up to 1.5 times of optical zoom while maintaining clarity and image quality. *5. F7.9 is the aperture when an ND filter is being used. *6. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. *7. 1GB:Panasonic PRO HIGH SPEED SD Memory Card • SR = Super Resolution • Dimensions and weights are based on CIPA standards.

	EX-H15	EX-Z2300	EX-S200	EX-Z800	EX-ZS10	EX-Z55	EX-G1	EX-FH100
Number of Effective Pixels	Approximately 14.1 megapixels	Approximately 14.1 megapixels	Approximately 14.1 megapixels	Approximately 14.1 megapixels	Approximately 14.1 megapixels	Approximately 14.1 megapixels	Approximately 12.1 megapixels	Approximately 10.1 megapixels
Image Sensor	1/2.3-inch square pixel CCD (Total pixels: 14.48 megapixels)	1/2.3-inch square pixel CCD (Total pixels: 14.48 megapixels)	1/2.3-inch square pixel CCD (Total pixels: 14.48 megapixels)	1/2.3-inch square pixel CCD (Total pixels: 14.48 megapixels)	1/2.3-inch square pixel CCD (Total pixels: 14.48 megapixels)	1/2.3-inch square pixel CCD (Total pixels: 14.53 megapixels)	1/2.3-inch square pixel CCD (Total pixels: 12.39 megapixels)	1/2.3-inch high-speed CMOS (Total pixels: 10.62 megapixels)
File Format	• Snapshots: JPEG (Exif Ver. 2.2), DCF 1.0 standard, DPOF compliant • Movies: AVI format, Motion JPEG, IMA-ADPCM (monaural) • Audio (Voice Recording): WAV (monaural)	• Snapshots: JPEG (Exif Ver. 2.3), DCF 2.0 standard, DPOF compliant • Movies: AVI format, Motion JPEG, IMA-ADPCM (monaural) • Audio (Voice Recording): WAV (monaural)	• Snapshots: JPEG (Exif Ver. 2.3), DCF 2.0 standard, DPOF compliant • Movies: AVI format, Motion JPEG, IMA-ADPCM (monaural) • Audio (Voice Recording): WAV (monaural)	• Snapshots: JPEG (Exif Ver. 2.3), DCF 2.0 standard, DPOF compliant • Movies: AVI format, Motion JPEG, IMA-ADPCM (monaural) • Audio (Voice Recording): WAV (monaural)	• Snapshots: JPEG (Exif Ver. 2.3), DCF 2.0 standard, DPOF compliant • Movies: AVI format, Motion JPEG, IMA-ADPCM (monaural) • Audio (Voice Recording): WAV (monaural)	• Snapshots: JPEG (Exif Ver. 2.3), DCF 2.0 standard, DPOF compliant • Movies: AVI format, Motion JPEG, IMA-ADPCM (monaural) • Audio (Voice Recording): WAV (monaural)	• Snapshots: JPEG (Exif Ver. 2.2), DCF 1.0 standard, DPOF compliant • Movies: AVI format, Motion JPEG, IMA-ADPCM (monaural) • Audio (Voice Recording): WAV (monaural)	• Snapshots: RAW (DNG*), JPEG (Exif Ver. 2.2), DCF 1.0 standard, DPOF compliant • Movies: AVI format, Motion JPEG, IMA-ADPCM (stereo) *DNG file format is one type of RAW image file, and it is recommended by Adobe Systems Incorporated for use as a standard image file format.
Recording Media	73.8 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card	34.9 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card	34.9 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card	14.5 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card	14.2 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card	14.2 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card	35.7 MB*2 built-in flash memory, microSD Memory Card, micro SDHC Memory Card	85.9 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card
Number of Recorded Pixels (Snapshots)	4,320 x 3,240 / 4,320 x 2,880 (3:2) / 4,320 x 2,432 (16:9) / 3,648 x 2,736 / 2,816 x 2,112 / 2,048 x 1,536 / 640 x 480 (VGA)	4,320 x 3,240 / 4,320 x 2,880 (3:2) / 4,320 x 2,432 (16:9) / 3,648 x 2,736 / 2,816 x 2,112 / 2,048 x 1,536 / 640 x 480 (VGA)	4,320 x 3,240 / 4,320 x 2,880 (3:2) / 4,320 x 2,432 (16:9) / 3,648 x 2,736 / 2,816 x 2,112 / 2,048 x 1,536 / 640 x 480 (VGA)	4,320 x 3,240 / 4,320 x 2,880 (3:2) / 4,320 x 2,432 (16:9) / 3,648 x 2,736 / 2,816 x 2,112 / 2,048 x 1,536 / 640 x 480 (VGA)	4,320 x 3,240 / 4,320 x 2,880 (3:2) / 4,320 x 2,432 (16:9) / 3,648 x 2,736 / 2,816 x 2,112 / 2,048 x 1,536 / 640 x 480 (VGA)	4,320 x 3,240 / 4,320 x 2,880 (3:2) / 4,320 x 2,432 (16:9) / 3,648 x 2,736 / 2,816 x 2,112 / 2,048 x 1,536 / 640 x 480 (VGA)	4,000 x 3,000 / 4,000 x 2,656 (3:2) / 4,000 x 2,240 (16:9) / 3,264 x 2,448 / 2,560 x 1,920 / 2,048 x 1,536 / 640 x 480 (VGA)	RAW / 3,648 x 2,736 / 3,648 x 2,432 (3:2) / 3,648 x 2,048 (16:9) / 3,456 x 2,592 / 3,072 x 2,304 / 2,304 x 1,728 / 1,600 x 1,200 / 640 x 480 (VGA)
Lens / Focal Length	11 lenses in 10 groups, including aspherical lens; F3.2 (W) to F5.7 (T) (Approximately 24 to 240 mm equivalent to 35 mm film)	7 lenses in 5 groups, including aspherical lens; F2.8 (W) to F6.5 (T) (Approximately 26 to 130 mm equivalent to 35 mm film)	6 lenses in 5 groups, including aspherical lens; F3.2 (W) to F5.9 (T) (Approximately 27 to 108 mm equivalent to 35 mm film)	6 lenses in 5 groups, including aspherical lens; F3.2 (W) to F5.9 (T) (Approximately 27 to 108 mm equivalent to 35 mm film)	6 lenses in 5 groups, including aspherical lens; F3.2 (W) to F6.5 (T) (Approximately 26 to 130 mm equivalent to 35 mm film)	7 lenses in 5 groups, including aspherical lens; F2.8 (W) to F6.5 (T) (Approximately 26 to 130 mm equivalent to 35 mm film)	11 lenses in 9 groups, including aspherical lens; F3.9 (W) to F5.4 (T) (Approximately 38 to 114 mm equivalent to 35 mm film)	11 lenses in 10 groups, including aspherical lens; F3.2 (W) to F5.7 (T) (Approximately 24 to 240 mm equivalent to 35 mm film)
Zoom	10x optical zoom, 4x digital zoom, HD Zoom with digital zoom: 159.4x max. (VGA size)	5x optical zoom, 7.5x Single Frame SR Zoom*3, 4x digital zoom, HD Zoom with digital zoom: 79.7x max. (VGA size)	4x optical zoom, 6x Single Frame SR Zoom*3, 4x digital zoom, HD Zoom with digital zoom: 63.8x max. (VGA size)	4x optical zoom, 6x Single Frame SR Zoom*3, 4x digital zoom, HD Zoom with digital zoom: 63.8x max. (VGA size)	5x optical zoom, 4x digital zoom, HD Zoom with digital zoom: 79.7x max. (VGA size)	5x optical zoom, 4x digital zoom, HD Zoom with digital zoom: 79.7x max. (VGA size)	3x optical zoom, 4x digital zoom, HD Zoom with digital zoom: 47.8x max. (VGA size)	10x optical zoom, 4x digital zoom, HD Zoom with digital zoom: 159.4x max. (VGA size)
Focus	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Super Macro, Infinity, Manual Focus • AF Area: Intelligent, Spot, 9-point multi, Auto Tracking • Focus Lock • Quick Shutter • AF Assist Light	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Super Macro, Infinity, Manual Focus • AF Area: Intelligent, Spot, 9-point multi, Auto Tracking • Focus Lock • AF Assist Light	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Super Macro, Infinity, Manual Focus • AF Area: Intelligent, Spot, 9-point multi, Auto Tracking • Focus Lock • AF Assist Light	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Super Macro, Infinity, Manual Focus • AF Area: Intelligent, Spot, 9-point multi, Auto Tracking • Focus Lock	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Infinity, Manual Focus • AF Area: Spot, 9-point multi, Auto Tracking • Focus Lock	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Super Macro, Infinity, Manual Focus • AF Area: Spot, 9-point multi, Auto Tracking • Focus Lock	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Pan Focus, Infinity, Manual Focus • AF Area: Intelligent, Spot, 9-point multi, Auto Tracking • Focus Lock • Quick Shutter • AF Assist Light	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Infinity, Manual Focus • AF Area: Spot, 9-point multi, Free, Auto Tracking • AF Assist Light
Approximate Focus Range	• Snapshots / Movies: Auto focus: 15 cm to ∞ (W) / Macro: 7 to 50 cm (First step from widest setting) / Super Macro: 7 to 50 cm *From lens surface. *Optical zoom changes range.	• Snapshots / Movies: Auto focus: 12 cm to ∞ (W) / Macro: 5 to 50 cm (Third step from widest setting) / Super Macro: 5 to 50 cm *From lens surface. *Optical zoom changes range.	• Snapshots / Movies: Auto focus: 20 cm to ∞ (W) / Macro: 8 to 50 cm (First step from widest setting) / Super Macro: 8 to 50 cm *From lens surface. *Optical zoom changes range.	• Snapshots / Movies: Auto focus: 20 cm to ∞ (W) / Macro: 8 to 50 cm (First step from widest setting) / Super Macro: 8 to 50 cm *From lens surface. *Optical zoom changes range.	• Snapshots / Movies: Auto focus: 10 cm to ∞ (W) / Macro: 10 to 50 cm (W) *From lens surface. *Optical zoom changes range.	• Snapshots / Movies: Auto focus: 15 cm to ∞ (W) / Macro: 5 to 50 cm (W) (Third step from widest setting) / Super Macro: 5 to 50 cm *From lens surface. *Optical zoom changes range.	• Snapshots: Auto focus: 10 cm to ∞ (W) / Macro: 10 cm to 50 cm (W) • Movies: 40 cm to ∞ (W) / Macro: 20 cm (W) *From lens surface. *Optical zoom changes range.	• Snapshots / Movies: Auto Focus: 15 cm to ∞ (W) / Macro: 7 to 50 cm (First step from widest setting) / Infinity: ∞ / Manual Focus: 15 cm to ∞ (W) *From lens surface. *Range is affected by optical zoom.
Exposure	• Metering: Multi pattern, Center Weighted, Spot by imaging element • Control: Program AE • Compensation: -2 EV to +2 EV (in 1/3 EV steps)	• Metering: Multi pattern, Center Weighted, Spot by imaging element • Control: Program AE • Compensation: -2 EV to +2 EV (in 1/3 EV steps)	• Metering: Multi pattern, (Center Weighted for some BS scenes) by imaging element • Control: Program AE • Compensation: -2 EV to +2 EV (in 1/3 EV steps)	• Metering: Multi pattern, (Center Weighted for some BS scenes) by imaging element • Control: Program AE • Compensation: -2 EV to +2 EV (in 1/3 EV steps)	• Metering: Multi pattern (center weighted for some BS scenes) by imaging element • Control: Program AE • Compensation: -2 EV to +2 EV (in 1/3 EV steps)	• Metering: Multi pattern (center weighted for some BS scenes) by imaging element • Control: Program AE • Compensation: -2 EV to +2 EV (in 1/3 EV steps)	• Metering: Multi pattern, Center Weighted, Spot by imaging element • Control: Program AE, Aperture Priority AE, Shutter Speed Priority AE, Manual Exposure • Compensation: -2 EV to +2 EV (in 1/3 EV steps)	• Metering: Multi pattern, Center Weighted, Spot by imaging element • Control: Program AE • Compensation: -2 EV to +2 EV (in 1/3 EV steps)
Shutter Type / Shutter Speed	CCD shutter, Mechanical shutter • Auto (Program AE): 1/2 to 1/2000 second • Night Scene: 4 seconds maximum *May differ due to camera setup.	CCD shutter, Mechanical shutter • Auto (Program AE): 1/2 to 1/1000 second • Night Scene: 4 seconds maximum *May differ due to camera setup.	CCD shutter, Mechanical shutter • Auto (Program AE): 1/2 to 1/2000 second • Night Scene: 4 seconds maximum *May differ due to camera setup.	CCD shutter, Mechanical shutter • Auto (Program AE): 1/2 to 1/2000 second • Night Scene: 4 seconds maximum *May differ due to camera setup.	CCD shutter, Mechanical shutter • Auto (Program AE): 1/2 to 1/2000 second • Night Scene: 4 seconds maximum *May differ due to camera setup.	CCD shutter, Mechanical shutter • Auto (Program AE): 1/2 to 1/2000 second • Night Scene: 4 seconds maximum *May differ due to camera setup.	CCD shutter, Mechanical shutter • Auto (Program AE): 1/2 to 1/1250 second • Night Scene: 4 seconds maximum *May differ due to camera setup.	CMOS electronic shutter, Mechanical shutter • Auto (Program AE) / Aperture Priority AE: 1 to 1/2000 second • Shutter Speed Priority AE / Manual Exposure: 30 to 1/2000 second *Shutter speeds up to 1/40000 second are supported only when shooting in the High-speed CS mode with Shutter Speed Priority AE / Manual Exposure. *May differ due to camera setup.
Aperture	F3.2 (W) to F7.5 (W) *With ND filter.*Optical zoom changes aperture value.	F2.8 (W) to F7.9 (W) *With ND filter. *Optical zoom changes aperture value.	F3.2 (W) to F8.0 (W) *With ND filter. *Optical zoom changes aperture value.	F3.2 (W) to F8.0 (W) *With ND filter. *Optical zoom changes aperture value.	F3.2 (W) to F8.0 (W) *With ND filter. *Optical zoom changes aperture value.	F3.2 (W) to F8.0 (W) *With ND filter. *Optical zoom changes aperture value.	F2.8 (W) to F7.9 (W) *With ND filter. *Optical zoom changes aperture value.	F3.2 (W) to F7.5 (W) *With ND filter. *Optical zoom and record mode change aperture value.
White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance
Sensitivity (SOS / REI)*1	Auto, ISO64, ISO100, ISO200, ISO400, ISO800, ISO1600, ISO3200	Auto, ISO50, ISO100, ISO200, ISO400, ISO800, ISO1600, ISO3200	Auto, ISO50, ISO100, ISO200, ISO400, ISO800, ISO1600, ISO3200	Auto, ISO50, ISO100, ISO200, ISO400, ISO800, ISO1600, ISO3200	Auto, ISO64, ISO100, ISO200, ISO400, ISO800, ISO1600	Auto, ISO64, ISO100, ISO200, ISO400, ISO800, ISO1600	Auto, ISO64, ISO100, ISO200, ISO400, ISO800, ISO1600, ISO3200	Auto, ISO100, ISO200, ISO400, ISO800, ISO1600, ISO3200
Recording Functions	Premium AUTO, Dynamic Photo, Landscape Effect, Make-up Mode, Auto Shutter, Face Detection, Continuous Shutter (Normal-speed, 4 fps, 10 fps, Flash), Auto Macro, BEST SHOT, HD Movie, Snapshot In Movie, Voice Recording	Premium AUTO, Dynamic Photo, Snapshot by Super-resolution Technology, Landscape Effect, Make-up Mode, Auto Shutter, Face Detection, Continuous Shutter (4 fps, 10 fps, Flash), Auto Macro, BEST SHOT, HD Movie, Snapshot In Movie, Voice Recording	Premium AUTO, Dynamic Photo, Snapshot by Super-resolution Technology, Landscape Effect, Make-up Mode, Auto Shutter, Face Detection, Continuous Shutter (4 fps, 10 fps, Flash), Auto Macro, BEST SHOT, HD Movie, Snapshot In Movie, Voice Recording	Premium AUTO, Dynamic Photo, Snapshot by Super-resolution Technology, Landscape Effect, Make-up Mode, Auto Shutter, Face Detection, Continuous Shutter (4 fps, 10 fps, Flash), Auto Macro, BEST SHOT, HD Movie, Snapshot In Movie, Voice Recording	Face Detection, Normal-speed Continuous Shutter, Auto Macro, BEST SHOT, HD Movie, Voice Recording, New easy Mode	Face Detection, Normal-speed Continuous Shutter, Auto Macro, BEST SHOT, Voice Recording, New easy Mode	Dynamic Photo, Landscape Effect, Make-up Mode, Auto Shutter, Face Detection, Interval Mode, Continuous Shutter (Normal-speed, High-speed), Auto Macro, BEST SHOT, AUTO BEST SHOT, Voice Recording	Continuous Shutter (40 fps max.), Prerecord Continuous Shutter, F Continuous shooting, Face Detection, Auto Macro, High Speed Movie (Audio recording supported only during 30 fps when using 30-120 or 30-240.), HD Movie, BEST SHOT, HD Movie, Snapshot in Movie
Playback Functions	Playback Zoom (8x), Multi-image Display, Calendar Screen, Red Eye Correction, Image Rotation, Resize, Trimming, Keystone Correction, Color Restoration, Slideshow, Layout Print	Playback Zoom (8x), Multi-image Display, Calendar Screen, Red Eye Correction, Image Rotation, Resize, Trimming, Keystone Correction, Color Restoration, Slideshow, Art Effect	Playback Zoom (8x), Multi-image Display, Calendar Screen, Image Rotation, Resize, Trimming, Slideshow, Art Effect	Playback Zoom (8x), Multi-image Display, Calendar Screen, Image Rotation, Resize, Trimming, Slideshow, Art Effect	Playback Zoom (8x), Multi-image Display, Red Eye Correction, Image Rotation(Snapshots), Resize, Trimming, Slideshow	Playback Zoom (8x), Multi-image Display, Red Eye Correction, Image Rotation, Resize, Trimming, Slideshow	Playback Zoom (8x), Multi-image Display, Calendar Screen, Red Eye Correction, Image Rotation, Resize, Trimming, Slideshow, Layout Print	Playback Zoom (8x), Multi-image Display, Image Rotation, Resize, Trimming, Slideshow, Continuous Shooting Multi Print
Other	Selectable Focus Frame, Control Panel Customization, Monitor Screen Brightness Adjustment, PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL)	Selectable Focus Frame, Control Panel Customization, Monitor Screen Brightness Adjustment, PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL), Create Folder	Selectable Focus Frame, PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL), Quick Mode, Create Folder	Selectable Focus Frame, Selectable Menu Color, PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL), Create Folder	Selectable Focus Frame, Key Customization, PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL), USB Charging	Selectable Focus Frame, Key Customization, PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL), USB Charging	Selectable Focus Frame, Control Panel Customization, Monitor Screen Brightness Adjustment, PictBridge, Video Output (NTSC / PAL)	PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL)
Self-timer	10 seconds or 2 seconds, Triple Self-timer	10 seconds or 2 seconds, Triple Self-timer	10 seconds or 2 seconds, Triple Self-timer	10 seconds or 2 seconds, Triple Self-timer	10 seconds or 2 seconds, Triple Self-timer	10 seconds or 2 seconds, Triple Self-timer	10 seconds or 2 seconds, Triple Self-timer	10 seconds or 2 seconds, Triple Self-timer *4
Built-in Flash	• Flash Modes: Auto, Flash off, Flash on, Soft Flash, Red Eye Reduction • Approximate Flash Range: Normal 0.2 to 5.0 m (W) / 0.5 to 2.8 m (T) Flash Continuous Shutter 0.4 to 2.7 m (W) / 0.5 to 1.5 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range.	• Flash Modes: Auto, Flash off, Flash on, Soft Flash, Red Eye Reduction • Approximate Flash Range: Normal 0.12 to 4.9 m (W) / 0.6 to 2.1 m (T) Flash Continuous Shutter 0.2 to 2.8 m (W) / 0.6 to 1.2 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range.	• Flash Modes: Auto, Flash off, Flash on, Soft Flash, Red Eye Reduction • Approximate Flash Range: Normal 0.2 to 2.4 m (W) / 0.4 to 2.4 m (T) Flash Continuous Shutter 0.3 to 1.9 m (W) / 0.4 to 1.1 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range.	• Flash Modes: Auto, Flash off, Flash on, Soft Flash, Red Eye Reduction • Approximate Flash Range: Normal 0.25 to 4.2 m (W) / 0.4 to 2.3 m (T) Flash Continuous Shutter 0.3 to 2.0 m (W) / 0.4 to 1.1 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range.	• Flash Modes: Auto, Flash off, Flash on, Red Eye Reduction • Approximate Flash Range: Normal 0.1** to 2.5 m (W) / 0.8 to 1.23 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range. **Macro mode	• Flash Modes: Auto, Flash off, Flash on, Red Eye Reduction • Approximate Flash Range: Normal 0.15** to 2.86 m (W) / 0.4** to 1.23 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range. **Macro mode	• Flash Modes: Auto, Flash off, Flash on, Soft Flash, Red Eye Reduction • Approximate Flash Range: Normal 0.2 to 2.4 m (W) / 0.5 to 1.1 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range.	• Flash Modes: Auto, Flash off, Flash on, Red Eye Reduction • Approximate Flash Range: Normal 0.4 to 3.6 m (W) / 0.5 to 2.0 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range.
Monitor Screen	3.0-inch TFT color LCD / 460,800 dots (960 x 480)	3.0-inch TFT color LCD / 460,800 dots (960 x 480)	2.7-inch TFT color LCD / 230,400 dots (960 x 240)	2.7-inch TFT color LCD / 230,400 dots (960 x 240)	2.7-inch TFT color LCD / 230,400 dots (960 x 240)	2.7-inch TFT color LCD / 230,400 dots (960 x 240)	2.5-inch TFT color LCD / 230,400 dots (960 x 240)	3.0-inch TFT color LCD / 230,400 dots (960 x 240)
Timekeeping Functions	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp
External Connection Terminals	USB port (Hi-Speed USB compatible) / AV output terminal (NTSC/PAL)	USB port (Hi-Speed USB compatible) / AV output terminal (NTSC / PAL)	USB port (Hi-Speed USB compatible) / AV output terminal (NTSC/PAL)	USB port (Hi-Speed USB compatible:Mass Storage / Full-Speed USB compatible:PTP) / AV output terminal (NTSC/PAL)	USB port (Hi-Speed USB compatible, USB charging) / AV output terminal (NTSC/PAL)	USB port (Hi-Speed USB compatible, USB charging) / AV output terminal (NTSC/PAL)	USB port (Hi-Speed USB compatible) / AV output terminal (NTSC / PAL)	USB port (Hi-Speed USB compatible) / AV output terminal (NTSC / PAL) / HDMI™*1 output (Mini)* *1080/50i output is not supported for PAL output using HDMI™.
Power Source	Rechargeable Lithium Ion Battery (NP-90)	Rechargeable Lithium Ion Battery (NP-110)	Rechargeable Lithium Ion Battery (NP-120)	Rechargeable Lithium Ion Battery (NP-80)	Rechargeable Lithium Ion Battery (NP-120)	Rechargeable Lithium Ion Battery (NP-80)	Rechargeable Lithium Ion Battery (NP-80)	Rechargeable Lithium Ion Battery (NP-90)
Dimensions (WxHxD)	102.5 x 62.1 x 29.3 (24.3*) mm *Excluding projections.	100.5 x 58.5 x 19.8 mm	100.1 x 55.3 x 17.8 (14.9*) mm *Excluding projections.	91.0 x 52.3 x 19.5 mm	94.9 x 56.3 x 19.3 (16.5*) mm *Excluding projections.	95.8 x 56.9 x 20.7 (19.2*) mm *Excluding projections.	103.5 x 64.2 x 19.9 mm	105.0 x 63.2 x 29.9 (29.0*) mm *Excluding projections.
Weight	206 g (Including Battery and Memory Card*6), 162 g (Excluding Battery and Memory Card)	149 g (Including Battery and Memory Card*6), 122 g (Excluding Battery and Memory Card)	132 g (Including Battery and Memory Card*6), 116 g (Excluding Battery and Memory Card)	124 g (Including Battery and Memory Card*6), 103 g (Excluding Battery and Memory Card)	140 g (Including Battery and Memory Card*6), 124 g (Excluding Battery and Memory Card)	141 g (Including Battery and Memory Card*6), 120 g (Excluding Battery and Memory Card)	154 g (Including Battery and Memory Card*7), 135 g (Excluding Battery and Memory Card)	Approximately 227 g (Including Battery and Memory Card*6), Approximately 183 g (Excluding Battery and Memory Card)
Bundled Accessories	Rechargeable Lithium Ion Battery (NP-90), Battery Charger, AC Power Cord, Special USB Cable, Special AV Cable, Strap, CD-ROM	Rechargeable Lithium Ion Battery (NP-110), Battery Charger, AC Power Cord, Special USB Cable, Special AV Cable, Strap, CD-ROM	Rechargeable Lithium Ion Battery (NP-120), Battery Charger, AC Power Cord, Special USB Cable, Special AV Cable, Strap, CD-ROM	Rechargeable Lithium Ion Battery (NP-80), Battery Charger, AC Power Cord, Special USB Cable, Special AV Cable, Strap, CD-ROM	Rechargeable Lithium Ion Battery (NP-120), USB-AC adaptor (AD-C53U), AC Power Cord, Special USB Cable, Special AV Cable, Strap, CD-ROM	Rechargeable Lithium Ion Battery (NP-80), USB-AC adaptor (AD-C53U), AC Power Cord, Special USB Cable, Strap, CD-ROM	Rechargeable Lithium Ion Battery (NP-80), Battery Charger, AC Power Cord, Special USB Cable, Special AV Cable, Strap, Protectors (2 types), replacement screws, CD-ROM	Rechargeable Lithium Ion Battery (NP-90), Battery Charger, AC Power Cord, Special USB Cable, Special AV Cable, Strap, CD-ROM

*1. SOS: Standard Output Sensitivity. REI: Recommended Exposure Index. *2. Built-in memory capacity after formatting. *3. Super-resolution Technology enhances zooming by up to 1.5 times of optical zoom while maintaining clarity and image quality.
*4. Trigger time setting depends on CS mode being used. Available settings depend on the REC mode being used. *5. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
*6. 1GB:Panasonic PRO HIGH SPEED SD Memory Card *7. 4GB:Panasonic microSDHC Memory Card • SR = Super Resolution • Dimensions and weights are based on CIPA standards.

	EX-H5	EX-Z16	EX-Z370
Number of Effective Pixels	Approximately 12.1 megapixels	Approximately 12.1 megapixels	Approximately 14.1 megapixels
Image Sensor	1/2.3-inch square pixel CCD (Total pixels: 12.39 megapixels)	1/2.3-inch square pixel CCD (Total pixels: 12.54 megapixels)	1/2.3-inch square pixel CCD (Total pixels: 14.48 megapixels)
File Format	• Snapshots: JPEG (Exif Ver. 2.2), DCF 1.0 standard, DPOF compliant • Movies: AVI format, Motion JPEG, IMA-ADPCM (monaural) • Audio (Voice Recording): WAV (monaural)	• Snapshots: JPEG (Exif Ver. 2.3), DCF 2.0 standard, DPOF compliant • Movies: AVI format, Motion JPEG, IMA-ADPCM (monaural) • Audio (Voice Recording): WAV (monaural)	• Snapshots: JPEG (Exif Ver. 2.3), DCF 2.0 standard, DPOF compliant • Movies: AVI format, Motion JPEG, IMA-ADPCM (monaural) • Audio (Voice Recording): WAV (monaural)
Recording Media	24.5 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card	14.9 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card	16.9 MB*2 built-in flash memory, SD Memory Card, SDHC Memory Card
Number of Recorded Pixels (Snapshots)	4,000 x 3,000 / 4,000 x 2,656 (3:2) / 4,000 x 2,240 (16:9) / 3,264 x 2,448 / 2,560 x 1,920 / 2,048 x 1,536 / 640 x 480 (VGA)	4,000 x 3,000 / 4,000 x 2,656 (3:2) / 4,000x 2,240 (16:9) / 3,264 x 2,448 / 2,560 x 1,920 / 2,048 x 1,536 / 640 x 480 (VGA)	4,320 x 3,240 / 4,320 x 2,880 (3:2) / 4,320 x 2,432 (16:9) / 3,648 x 2,736 / 2,816 x 2,112 / 2,048 x 1,536 / 640 x 480 (VGA)
Lens / Focal Length	11 lenses in 10 groups, including aspherical lens; F3.2 (W) to F5.7 (T) (Approximately 24 to 240 mm equivalent to 35 mm film)	6 lenses in 5 groups, including aspherical lens; F2.9 (W) to F5.4 (T) (Approximately 35.5 to 106.5 mm equivalent to 35 mm film)	6 lenses in 5 groups, including aspherical lens; F3.2 (W) to F5.9 (T) (Approximately 27 to 108 mm equivalent to 35 mm film)
Zoom	10x optical zoom, 4x digital zoom, HD Zoom with digital zoom: 159.4x max. (VGA size)	3x optical zoom, 4x digital zoom, HD Zoom with digital zoom: 47.8x max. (VGA size)	4x optical zoom, 4x digital zoom, HD Zoom with digital zoom: 63.8x max. (VGA size)
Focus	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Super Macro, Infinity, Manual Focus • AF Area: Intelligent, Spot, 9-point multi, Auto Tracking • Focus Lock • AF Assist Light	• Type: Contrast Detection Auto Focus • Mode: Auto Focus,Macro, Pan Focus, Infinity, Manual Focus • AF Area: Spot, 9-point multi, Auto Tracking • Focus Lock	• Type: Contrast Detection Auto Focus • Mode: Auto Focus, Macro, Super Macro, Pan Focus, Infinity, Manual Focus • AF Area: Spot, 9-point multi, Auto Tracking • Focus Lock
Approximate Focus Range	• Snapshots / Movies: Auto focus: 15 cm to ∞ (W) / Macro: 7 to 50 cm (First step from widest setting) / Super Macro: 7 to 50 cm *From lens surface. *Optical zoom changes range.	• Snapshots: Auto focus: 10 cm to ∞ (W) / Macro: 10 to 50 cm (W) • Movies: Auto focus: 70 cm to ∞ (W) / Macro: 30 cm (W) *From lens surface. *Optical zoom changes range.	• Snapshots: Auto focus: 20 cm to ∞ (W) / Macro: 8 to 50 cm (W) (First step from widest setting) / Super Macro: 8 to 50 cm • Movies: Auto focus: 39 cm to ∞ (W) / Macro: 35 cm (W) *From lens surface. *Optical zoom changes range.
Exposure	• Metering: Multi pattern, (Center Weighted for some BS scenes) by imaging element • Control: Program AE • Compensation: -2 EV to +2 EV (in 1/3 EV steps)	• Metering: Multi pattern, Center Weighted, Spot by imaging element • Control: Program AE • Compensation: -2 EV to +2 EV (in 1/3 EV steps)	• Metering: Multi pattern, Center Weighted, Spot by imaging element • Control: Program AE • Compensation: -2 EV to +2 EV (in 1/3 EV steps)
Shutter Type / Shutter Speed	CCD shutter, Mechanical shutter • Auto (Program AE): 1/2 to 1/2000 second • Night Scene: 4 seconds maximum *May differ due to camera setup.	CCD shutter, Mechanical shutter • Auto (Program AE): 1/2 to 1/2000 second • Night Scene: 4 seconds maximum *May differ due to camera setup.	CCD shutter, Mechanical shutter • Auto (Program AE): 1/2 to 1/2000 second • Night Scene: 4 seconds maximum *May differ due to camera setup.
Aperture	F3.2 (W) to F7.5 (W) *With ND filter. *Optical zoom changes aperture value.	F2.9 (W) to F7.3 (W) *With ND filter. *Optical zoom changes aperture value.	F3.2 (W) to F8.0 (W) *With ND filter. *Optical zoom changes aperture value.
White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance	Auto, Daylight, Overcast, Shade, Day White Fluorescent, Daylight Fluorescent, Tungsten, Manual White Balance
Sensitivity (SOS / REI)*1	Auto, ISO64, ISO100, ISO200, ISO400, ISO800, ISO1600, ISO3200	Auto, ISO64, ISO100, ISO200, ISO400, ISO800, ISO1600	Auto, ISO64, ISO100, ISO200, ISO400, ISO800, ISO1600
Recording Functions	Dynamic Photo, Landscape Effect, Make-up Mode, Auto Shutter, Face Detection, Continuous Shutter (Normal-speed, 4 fps,10 fps, Flash), Auto Macro, BEST SHOT, HD Movie, Snapshot In Movie, Voice Recording	Face Detection, Normal-speed Continuous Shutter, Auto Macro, BEST SHOT, Snapshot in Movie, Voice Recording, easy Mode	Face Detection, Normal-speed Continuous Shutter, Auto Macro, BEST SHOT, Voice Recording, easy Mode
Playback Functions	Playback Zoom (8x), Multi-image Display, Calendar Screen, Image Rotation, Resize, Trimming, Slideshow	Playback Zoom (8x), Multi-image Display, Red Eye Correction, Image Rotation (Snapshots), Resize, Trimming, Slideshow	Playback Zoom (8x), Multi-image Display, Red Eye Correction, Image Rotation (Snapshots), Resize, Trimming, Slideshow
Other	Selectable Focus Frame, PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL)	Selectable Focus Frame, Key Customization, PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL)	Selectable Focus Frame, Key Customization, PictBridge, Video Output (NTSC / PAL), Wide-screen TV Output (NTSC / PAL)
Self-timer	10 seconds or 2 seconds, Triple Self-timer	10 seconds or 2 seconds, Triple Self-timer	10 seconds or 2 seconds, Triple Self-timer
Built-in Flash	• Flash Modes: Auto, Flash off, Flash on, Soft Flash, Red Eye Reduction • Approximate Flash Range: Normal 0.2 to 4.2 m (W) / 0.5 to 2.4 m (T) Flash Continuous Shutter 0.4 to 1.8 m (W) / 0.5 to 1.0 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range.	• Flash Modes: Auto, Flash off, Flash on, Red Eye Reduction • Approximate Flash Range: Normal 0.1** to 3.0 m (W) / 0.6 to 1.6 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range. **Macro mode	• Flash Modes: Auto, Flash off, Flash on, Red Eye Reduction • Approximate Flash Range: Normal 0.2** to 2.3 m (W) / 0.4 to 1.3 m (T) *From lens surface. *ISO sensitivity: "Auto" *Optical zoom changes range. **Macro mode
Monitor Screen	2.7-inch TFT color LCD / 230,400 dots (960 x 240)	2.7-inch TFT color LCD / 230,400 dots (960 x 240)	2.7-inch TFT color LCD / 230,400 dots (960 x 240)
Timekeeping Functions	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp	Date and time (Current date and time are stored with image data), Auto calendar up to 2049, Timestamp
External Connection Terminals	USB port (Hi-Speed USB compatible) / AV output terminal (NTSC/PAL)	USB port (Hi-Speed USB compatible, USB charging) / AV output terminal (NTSC / PAL)	USB port (Hi-Speed USB compatible) / AV output terminal (NTSC / PAL)
Power Source	Rechargeable Lithium Ion Battery (NP-80)	Rechargeable Lithium Ion Battery (NP-80)	Rechargeable Lithium Ion Battery (NP-80)
Dimensions (WxHxD)	103.5 x 59.4 x 29.1 (24.4*) mm *Excluding projections.	98.8 x 58.4 x 21.7 (21.2*) mm *Excluding projections.	98.6 x 57.9 x 19.7 (18.3*) mm *Excluding projections.
Weight	174 g (Including Battery and Memory Card*3), 157 g (Excluding Battery and Memory Card)	140 g (Including Battery and Memory Card*3), 119 g (Excluding Battery and Memory Card)	122 g (Including Battery and Memory Card*3), 101 g (Excluding Battery and Memory Card)
Bundled Accessories	Rechargeable Lithium Ion Battery (NP-80), Battery Charger, AC Power Cord, Special USB Cable, Special AV Cable, Strap, CD-ROM	Rechargeable Lithium Ion Battery (NP-80), Battery Charger, AC Power Cord, Special USB Cable, Strap, CD-ROM	Rechargeable Lithium Ion Battery (NP-80), Battery Charger, AC Power Cord, Special USB Cable, Special AV Cable, Strap, CD-ROM

Option

Rechargeable Lithium Ion Battery

- **NP-80** (EX-Z800 / EX-ZS5 / EX-H5 / EX-Z370 / EX-Z16 / EX-G1 only)
- **NP-90** (EX-H20G / EX-H15 / EX-FH100 only)
- **NP-110** (EX-ZR10 / EX-Z2300 only)
- **NP-120** (EX-S200 / EX-ZS10 only)
- **NP-130** (EX-ZR100 / EX-H30)

Screen Languages

Select from among English, Spanish, French, Italian, Portuguese, Japanese, Traditional Chinese, Simplified Chinese, Korean, Danish, Finnish, Norwegian, Swedish, Dutch, Polish*4, Czech*4, Hungarian*4, Arabic, Russian, Indonesian, Turkish,Thai, Malay*5, Vietnamese*5 and Hindi*5.

*1. SOS: Standard Output Sensitivity. REI: Recommended Exposure Index. *2. Built-in memory capacity after formatting. *3. 1GB:Panasonic PRO HIGH SPEED SD Memory Card *4. Not available on the ZS10, ZS5 and Z16 model. *5. Available only on the ZS10, ZS5 and Z16 model.
• Dimensions and weights are based on CIPA standards.

Number of Snapshots / File Sizes (Actual values depend on recording conditions), Movie Recording Time
Image sizes are the maximum and minimum for each model.

Snapshots

	Image Size (Pixels)	Approximate File Size			SD Memory Card (1GB)		
		Fine	Normal	Economy	Fine	Normal	Economy
ZR100	4,000 x 3,000 (12M)	7.87 MB	4.13 MB	-	96 shots	142 shots	-
	640 x 480 (VGA)	430 KB	290 KB	-	1,224 shots	1,667 shots	-
ZR10	4,000 x 3,000 (12M)	7.87 MB	4.13 MB	-	96 shots	142 shots	-
	640 x 480 (VGA)	430 KB	290 KB	-	1,224 shots	1,667 shots	-
H20G	4,320 x 3,240 (14M)	9.31 MB	4.86 MB	-	103 shots	199 shots	-
	640 x 480 (VGA)	430 KB	290 KB	-	2,249 shots	3,335 shots	-
H30	4,608 x 3,456 (16M)	10.71 MB	5.57 MB	-	90 shots	173 shots	-
	640 x 480 (VGA)	430 KB	290 KB	-	2,244 shots	3,327 shots	-
H15	4,320 x 3,240 (14M)	9.31 MB	4.86 MB	3.24 MB	103 shots	199 shots	298 shots
	640 x 480 (VGA)	430 KB	290 KB	240 KB	2,246 shots	3,330 shots	4,024 shots
Z2300	4,320 x 3,240 (14M)	9.31 MB	4.86 MB	-	103 shots	199 shots	-
	640 x 480 (VGA)	430 KB	290 KB	-	2,241 shots	3,323 shots	-
S200	4,320 x 3,240 (14M)	9.31 MB	4.86 MB	-	103 shots	199 shots	-
	640 x 480 (VGA)	430 KB	290 KB	-	2,246 shots	3,330 shots	-

Movies

	Image Size (Pixels)	Approximate Data Rate (Frame Rate)	Approximate Recording Time for SD Memory Card 1GB
ZR100*1	FHD : 1,920 x 1,080	14.4 M bits/second (30 fps)	8 minutes and 17 seconds
	HS 1000 : 224 x 64	40 M bits/second (1000 fps)	3 minutes and 2 seconds
	HS 480 : 224 x 160	40 M bits/second (480 fps)	3 minutes
	HS 240 : 432 x 320	40 M bits/second (240 fps)	2 minutes and 59 seconds
	HS 30-240 : 432 x 320	5.4 M bits/second (30 fps) / 40.4 M bits/second (240 fps)	22 minutes and 20 seconds*4
	STD : 640 x 480	3.9 M bits/second (30 fps)	29 minutes
ZR10*1	FHD : 1,920 x 1,080	14.4 M bits/second (30 fps)	8 minutes and 17 seconds
	HS 480 : 224 x 160	24 M bits/second (480 fps)	5 minutes and 3 seconds
	HS 240 : 432 x 320	30 M bits/second (240 fps)	3 minutes and 59 seconds
	HS 30-240 : 432 x 320	4.1 M bits/second (30 fps) / 30.4 M bits/second (240 fps)	29 minutes and 13 seconds*4
	STD : 640 x 480	3.9 M bits/second (30 fps)	30 minutes and 38 seconds
H20G*1	HD : 1,280 x 720	10.9 M bits/second (30 fps)	12 minutes and 10 seconds
	STD : 640 x 480	3.8 M bits/second (30 fps)	35 minutes and 18 seconds
H30*1	HD : 1,280 x 720	19.2 M bits/second (24 fps)	6 minutes and 52 seconds
	STD : 640 x 480	12.2 M bits/second (30 fps)	10 minutes and 49 seconds
H15*1	HD : 1,280 x 720	30.2 M bits/second (30 fps)	4 minutes and 22 seconds
	STD : 640 x 480	12.2 M bits/second (30 fps)	10 minutes and 47 seconds
	LP 320 x 240	2.7 M bits/second (15 fps)	49 minutes and 33 seconds
Z2300*1	HD : 1,280 x 720	30.2 M bits/second (30 fps)	4 minutes and 22 seconds
	STD : 640 x 480	12.2 M bits/second (30 fps)	10 minutes and 47 seconds
S200	HD : 1,280 x 720	18.2 M bits/second (20 fps)	7 minutes and 14 seconds
	STD : 640 x 480	12.2 M bits/second (30 fps)	10 minutes and 47 seconds

Snapshots

	Image Size (Pixels)	Approximate File Size			SD Memory Card (1GB)		
		Fine	Normal	Economy	Fine	Normal	Economy
Z800	4,320 x 3,240 (14M)	9.31 MB	4.86 MB	-	103 shots	199 shots	-
	640 x 480 (VGA)	430 KB	290 KB	-	2,246 shots	3,330 shots	-
ZS10	4,320 x 3,240 (14M)	4.86 MB	3.24 MB	-	198 shots	298 shots	-
	640 x 480 (VGA)	290 KB	240 KB	-	3,331 shots	4,026 shots	-
ZS5	4,320 x 3,240 (14M)	4.86 MB	3.24 MB	-	198 shots	298 shots	-
	640 x 480 (VGA)	290 KB	240 KB	-	3,331 shots	4,026 shots	-
G1	4,000 x 3,000 (12M)	7.87 MB	4.13 MB	2.76 MB	490 shots*3	935 shots*3	1,399 shots*3
	640 x 480 (VGA)	430 KB	290 KB	240 KB	8,980 shots*3	13,314 shots*3	16,088 shots*3
FH100	3,648 x 2,736 (10M)	6.4 MB	3.38 MB	2.27 MB	151 shots	285 shots	424 shots
	640 x 480 (VGA)	430 KB	290 KB	240 KB	2,236 shots	3,314 shots	4,005 shots
H5	4,000 x 3,000 (12M)	7.87 MB	4.13 MB	2.76 MB	122 shots	234 shots	350 shots
	640 x 480 (VGA)	430 KB	290 KB	240 KB	2,244 shots	3,327 shots	4,021 shots
Z370	4,320 x 3,240 (14M)	9.31 MB	4.86 MB	-	103 shots	198 shots	-
	640 x 480 (VGA)	430 KB	290 KB	-	2,247 shots	3,332 shots	-
Z16	4,000 x 3,000 (12M)	4.13 MB	2.76 MB	-	233 shots	350 shots	-
	640 x 480 (VGA)	290 KB	240 KB	-	3,331 shots	4,026 shots	-

Movies

	Image Size (Pixels)	Approximate Data Rate (Frame Rate)	Approximate Recording Time for SD Memory Card 1GB
Z800	HD : 1,280 x 720	18.2 M bits/second (20 fps)	7 minutes and 14 seconds
	STD : 640 x 480	12.2 M bits/second (30 fps)	10 minutes and 47 seconds
ZS10*1	HD : 1,280 x 720	30.2 M bits/second (30 fps)	3 minutes and 56 seconds
	STD : 640 x 480	10.6 M bits/second (30 fps)	11 minutes and 42 seconds
ZS5*1	WIDE : 848 x 480	12.5 M bits/second (30 fps)	10 minutes and 7 seconds
	STD : 640 x 480	10.6 M bits/second (30 fps)	11 minutes and 42 seconds
G1*2	WIDE : 848 x 480	13 M bits/second (30 fps)	39 minutes and 57 seconds*3
	STD : 640 x 480	10 M bits/second (30 fps)	52 minutes and 45 seconds*3
	LP : 320 x 240	2.7 M bits/second (15 fps)	3 hours and 18 minutes*3
FH100*1	HD : 1,280 x 720	30 M bits/second (30 fps)	4 minutes and 20 seconds
	HS 1000 : 224 x 64	25 M bits/second (1000 fps)	5 minutes and 14 seconds
	HS 420 : 224 x 168	50 M bits/second (420 fps)	2 minutes and 38 seconds
	HS 240 : 448 x 336	50 M bits/second (240 fps)	2 minutes and 38 seconds
	HS 120 : 640 x 480	50 M bits/second (120 fps)	2 minutes and 38 seconds
	HS 30-240 : 448 x 336	6.25 M bits/second (30 fps) / 50 M bits/second (240 fps)	19 minutes and 57 seconds*4
	HS 30-120 : 640 x 480	12.5 M bits/second (30 fps) / 50 M bits/second (120 fps)	10 minutes and 15 seconds*5
	STD : 640 x 480	10 M bits/second (30 fps)	12 minutes and 44 seconds
H5*1	HD : 1,280 x 720	19.2 M bits/second (20 fps)	6 minutes and 51 seconds
	STD : 640 x 480	12.2 M bits/second (30 fps)	10 minutes and 47 seconds
	LP : 320 x 240	2.7 M bits/second (15 fps)	49 minutes and 29 seconds
Z370*1	WIDE : 848 x 480	12.5 M bits/second (30 fps)	10 minutes and 8 seconds
	STD : 640 x 480	10.6 M bits/second (30 fps)	11 minutes and 43 seconds
Z16*1	WIDE : 848 x 480	12.5 M bits/second (30 fps)	10 minutes and 7 seconds
	STD : 640 x 480	10.6 M bits/second (30 fps)	11 minutes and 42 seconds

*1. Each movie can be up to 29 minutes long. *2. Each movie can be up to 10 minutes long. *3. Approximate number of snapshots and recoding time for microSDHC Memory Card 4GB *4. Recordable time when the entire movie is recorded at 30 fps. Time is different when speed is switched between 30 fps and 240 fps during recording. *5. Recordable time when the entire movie is recorded at 30 fps. Time is different when speed is switched between 30 fps and 120 fps during recording.

• All of the above values are approximate and are presented for reference only. • SD Memory Card values are based on Panasonic PRO HIGH SPEED 1 GB SD Memory Card. Actual capacity depends on the card manufacturer. • microSDHC Memory Card values are based on Panasonic 4 GB microSDHC Memory Card. Actual capacity depends on the card manufacturer. • The SD memory card is available separately. • When using a memory card with a different capacity than noted above, calculate approximate capacity by multiplying the values here by the appropriate percentage. • Designs and specifications are subject to change without notice. The printing process may cause colors to differ somewhat from those of the actual product.

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• The appearance of the final product may be different from that shown in the images included herein.

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